

# SERVICE MANUAL

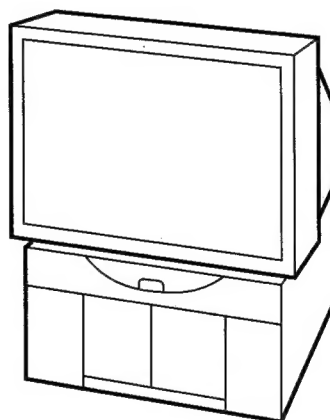
# RA-1 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-46V25	RM-Y131	US	SCC-H53D-A	KP-61V25	RM-Y131	US	SCC-H53F-A
KP-46V25	RM-Y131	Canadian	SCC-H58E-A				
KP-53V25	RM-Y131	US	SCC-H53E-A				
KP-53V25	RM-Y131	Canadian	SCC-H58D-A				

**Note :**

1. Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-053-01



Note: All Corrections and Supplements are attached to the back of the Manual.



COLOR REAR VIDEO PROJECTOR  
**SONY®**

※ Please file according to model size. .... ■

46 53 61

## SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system	AUDIO (VAR/FIX) OUT (phono jacks) :
Picture tube	7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system	900 mVrms (100% modulation) Impedance : 5 kilohms
Projection lenses	High performance, large-diameter hybrid lens F1.0	Speaker Full range speaker 100 mm (3.9 inches) diameter
Screen size (measured diagonally)		Speaker output 10 W x 2
	KP-46V25 46 inches	Power requirement 120 V, 60 Hz
	KP-53V25 53 inches	Power consumption Max. 240 W
	KP-61V25 61 inches	
Screen brightness		Standby mode :4W
	KP-46V25 1500 cd/m <sup>2</sup>	
	KP-53V25 1200 cd/m <sup>2</sup>	
	KP-61V25 900 cd/m <sup>2</sup>	
Television system	American TV standards	
Channel coverage	VHF : 2-13 / UHF : 14-69 / CATV : 1-125	
Antenna	75 ohm external antenna terminal for VHF/UHF	
Inputs/output	VIDEO IN 1 S VIDEO IN (4-pin mini DIN) : Y : 1 Vp-p, 75-ohms unbalanced, sync negative C : 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phone jack) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 47 kilohms VIDEO INPUT 2 and VIDEO IN 3 VIDEO (phone jacks) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 47 kilohms VIDEO OUT 3 VIDEO (phone jacks) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 10 kilohms MONITOR OUT VIDEO (phone jack) : 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phone jacks) : 500 mVrms (100% modulation) Impedance : 10 kilohms	Supplied accessories Remote commander RM-Y131 (1) Size AA (R6) battery (1) Optional accessories U/V mixer EAC-66 Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V, VMC-720M High-contrast protective screen SCN-46X1 (For KP-46V25) SCN-53X1 (For KP-53V25)

Design and specifications are subject to change without notice.

## SAFETY CHECK-OUT ( US model only )

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

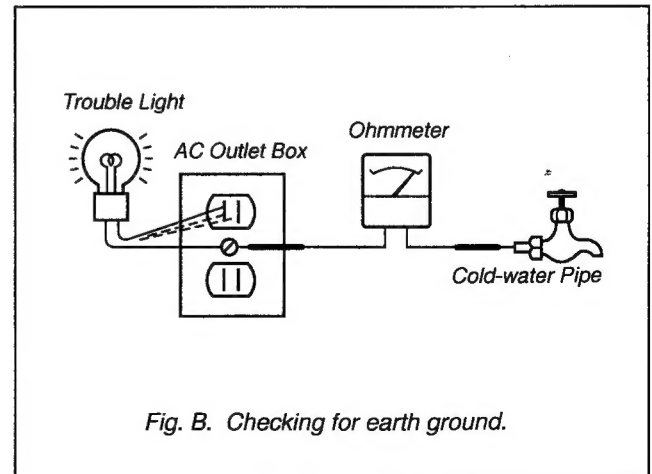
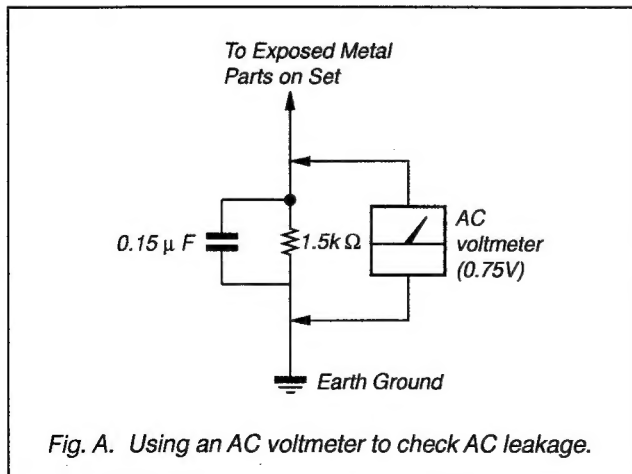
### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



## TABLE OF CONTENTS

Section	Title	Page	Section	Title	Page
<b>1. GENERAL</b>			<b>3. SAFETY RELATED ADJUSTMENTS</b>		<b>18</b>
	Step 1 : Installing the projection TV .....	5	<b>4. DIAGRAMS</b>		
	Step 2 : Connections .....	5	4-1. Block Diagrams (1) .....	24	
	Step 4 : Setting up the projection TV automatically (AUTO SET UP) .....	8	Block Diagrams (2) .....	27	
	Setting the clock (CURRENT TIME SET) .....	10	Block Diagrams (3) .....	30	
	Setting the timer to turn the projection TV on and off (ON/OFF TIMER) .....	11	Block Diagrams (4) .....	33	
	Blocking out a channel (CHANNEL BLOCK) .....	11	4-2. Circuit Boards Location .....	36	
	Customizing the channel number buttons (CH CAPTION/GUIDE) .....	12	4-3. Printed Wiring Board and Schamatic Diagrams .....	36	
	Setting video labels (VIDEO LABEL) .....	12	• A Board .....	39	
	Displaying Caption Vision (CAPTION VISION/XDS) .....	13	• D Board .....	43	
	Operating a cable box .....	13	• U Board .....	51	
			• M Board .....	55	
<b>2. DISASSEMBLY</b>			• P Board .....	63	
2-1-1. REAR PLATE REMOVAL (KP-46V25/53V25) .....	14		• HA Board .....	68	
2-1-2. REAR PLATE REMOVAL (KP-61V25) .....	14		• E Board .....	69	
2-2. CHASSIS ASSY REMOVAL .....	14		• G Board .....	77	
2-3. SERVICE POSITION .....	14		• ZB Board .....	80	
2-4. G BOARD REMOVAL .....	15		• HB Board .....	80	
2-5. D BOARD REMOVAL .....	15		• ZG Board .....	81	
2-6. U BOARD REMOVAL .....	15		• ZR Board .....	82	
2-7. M BOARD REMOVAL .....	15		• CR Board .....	86	
2-8. HA BOARD REMOVAL .....	16		• CG Board .....	88	
2-9-1. BEZNET REMOVAL (KP-41T15/53V25) .....	16		• CB Board .....	89	
2-9-2. SCREEN FRAME REMOVAL (KP-61V25) .....	16		4-4. Semiconductions .....	92	
2-10-1. MIRROR COVER REMOVAL (KP-41T15/53V25) 16			<b>5. EXPLODED VIEWS</b>		
2-10-2. MIRROR COVER REMOVAL (KP-61V25) .....	17		5-1. Cover (KP-46V25/53V25) .....	94	
2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL .....	17		5-2. Cover (KP-61V25) .....	95	
2-12. PICTURE TUBE REMOVAL .....	17		5-3. Chassis .....	96	
			5-4. Picture tube .....	97	
			<b>6. ELECTRICAL PARTS LIST</b> .....	<b>98</b>	

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÂSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE  $\Delta$  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLODÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.



# SECTION1 GENERAL

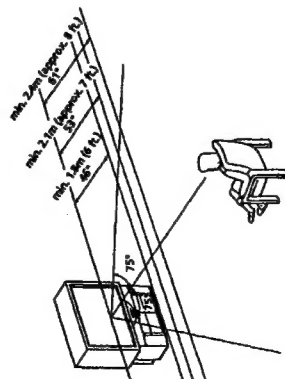
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## Getting Started

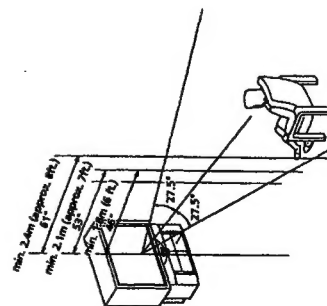
### Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

#### Optimum viewing area (Horizontal)

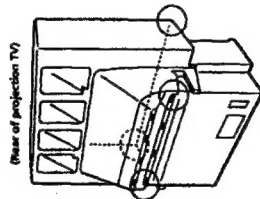


#### Optimum viewing area (Vertical)



### Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.



### Preparing for your projection TV

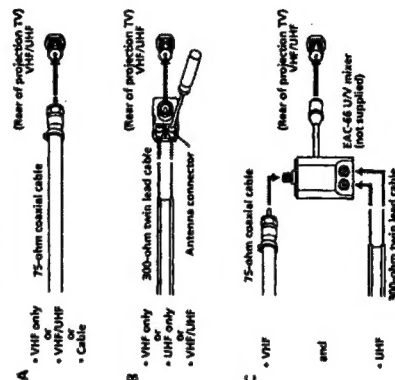
Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 13.

## Step 2: Connections

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

### To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.



### Notes

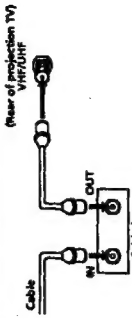
- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(H+1).

### Connecting an antenna/cable TV system without a VCR

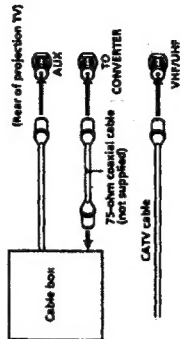


### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



### To cable box and cable



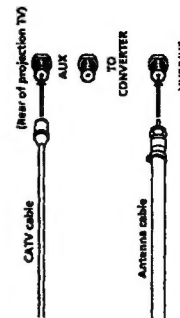
Pay cable TV systems use scrambled or encoded signals requiring the cable box\* in addition to the normal cable connection.

- The cable box will be supplied by the cable company.

### Note

- You cannot watch the signal through AUX connector as a window picture.

### To cable and antenna



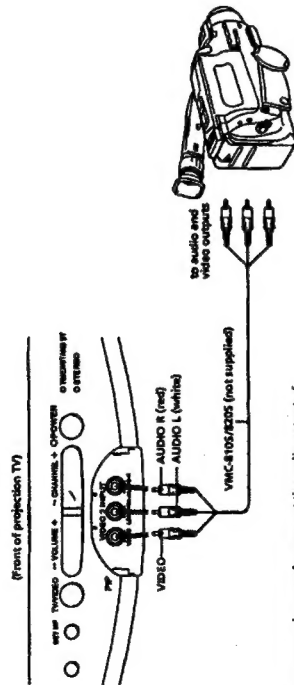
### Note

- Do not connect anything to the TO CONVERTER connector in this case.



## Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.

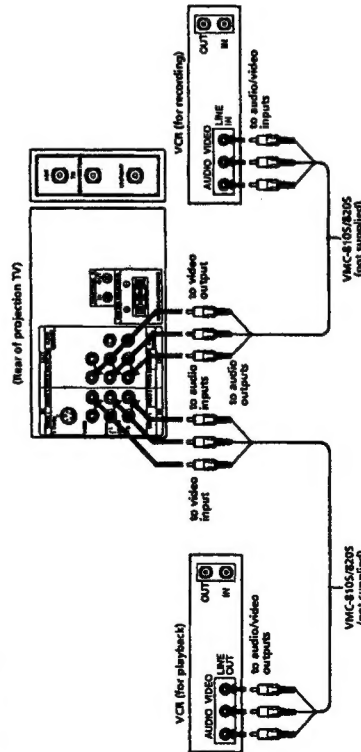


### Note

- To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO 1 (MONO) or VIDEO 2 INPUT on the projection TV.

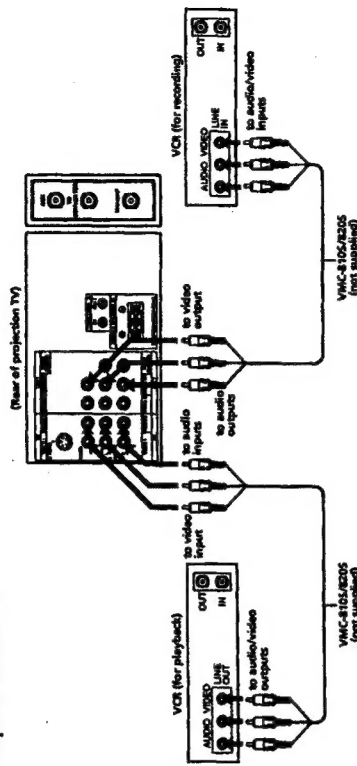
## Connecting two VCRs for tape editing using VIDEO 3 IN and OUT

You can watch input images different from the image being recorded.  
The VIDEO 3 OUT jacks output only the signal from the VIDEO 3 IN jacks. If you make the connection as shown below, you can watch images from either antenna, cable, VIDEO 1 IN or VIDEO 2 INPUT jacks during recording.



## Connecting two VCRs for tape editing using MONITOR OUT

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.

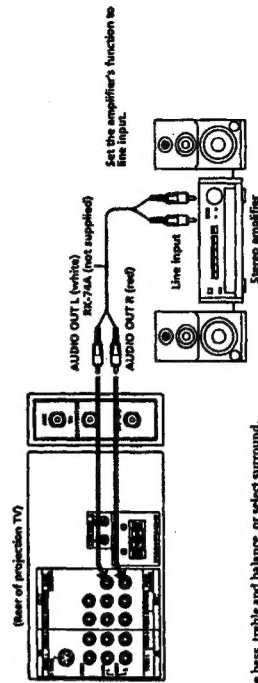


### Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S VIDEO connector to connect a VCR for playback and either S VIDEO connector or composite video jack to connect a VCR for recording.

## Connecting an audio system

When connecting audio equipment, see page 25 for more information.



### Note

- You can adjust the bass, treble and balance, or select surround, an MTS (Multichannel TV Sound) or CSR (Orchestra Seat Effect) mode with the supplied remote commander.

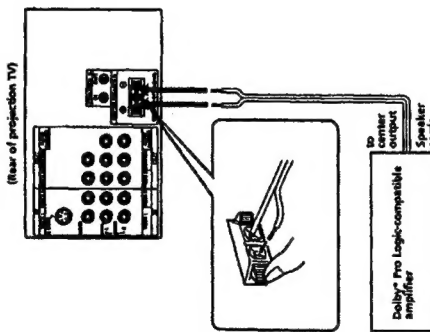
## Using the projection TV speakers as center speakers

This feature allows you to enjoy the benefits of Dolby Pro Logic by using the speakers of the projection TV as the center speaker. To utilize this system, you must connect an amplifier that is Dolby Pro Logic compatible. Connect the speaker wires from the amplifier's center channel output terminals to the projection TV's CENTER SPEAKER IN. Both right and left terminals must be connected to receive an audio signal. After making the right connections, select "SPEAKER: CENTER" in the AUDIO menu (page 25). The left and right audio channels can be heard through your audio system speakers.

In this connection, adjust the volume with your amplifier.

### Notes

- Always match the speaker cord and terminal colors when making the connections.
- Unplug the projection TV when making the connections. If the exposed speaker cord wires touch while the projection TV is plugged in, the projection TV may short-circuit and be damaged.
- Do not pull on the speaker cords.
- Always turn off the amplifier power before connecting to the CENTER SPEAKER IN terminals.

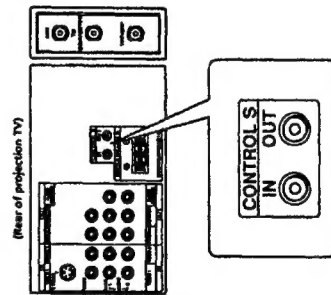


• Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590, Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

## Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote commander.

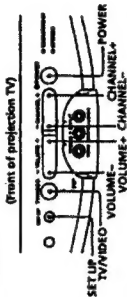
- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the projection TV.
- To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the projection TV.



Getting Started 11-EN

## Step 4: Setting up the projection TV automatically (AUTO SET UP)

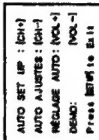
You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the TV manually, see "Adjusting convergence" (page 15), "Setting cable TV on or off" (page 15), "Presetting channels" (page 16) and "Changing the menu language" (page 16). If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.



### 1 Press POWER to turn the projection TV on.

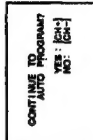


### 2 Press SET UP on the front of the projection TV.



### 3 Press CHANNEL+ to start AUTO SET UP.

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL- for Spanish or VOLUME+ for French.



All of the menus will be set to the factory preset condition in the selected language.

### 4 Press CHANNEL+ to preset channels.

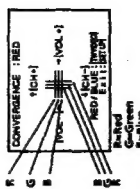


"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.

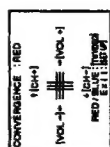


### 5 Adjust convergence.

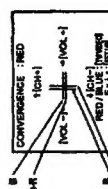
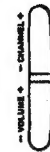
- (1) Press CHANNEL+.
- The CONVERGENCE adjustment screen appears.



### (2) Press TV/VIDEO to select RED or BLUE.



### (3) Using CHANNEL+/- or VOLUME +/-, move the line until it converges with the center green line.

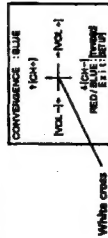


To move horizontal line up/down, press CHANNEL+/-.  
To move vertical line right/left, press VOLUME+/-.

(continued)

Getting Started 13-EN

- (4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



#### Notes

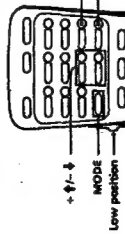
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP.

#### To preview the main functions (DEMO)

Press VOLUME- in step 3. The functions and menus are displayed one by one.

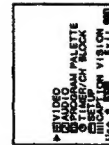
#### Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



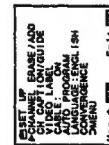
#### 1 Press MENU.

The main menu appears.



#### 2 Press + or - to move the cursor (>) to SET UP and press RETURN.

The SET UP menu appears.



#### (3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



#### 3 Make sure the cursor (>) is beside CHANNEL ERASE/ADD and press RETURN.

If the cursor is not beside CHANNEL ERASE/ADD, press + or - to move the cursor and press RETURN.

The CHANNEL ERASE/ADD menu appears.



#### 4 Erase and/or add the channel you want:

- (1) Make sure the cursor (>) is beside ERASE.
- (2) Press CH + or - to select the channel you want to erase.



#### (3) Press RETURN.

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.



#### To add a channel that you want

- (1) Press + or - to select ADD.
- (2) Press 0-9 button to select the channel you want to add and press ENTER.



#### 5 To erase and/or add other channels, repeat step 4.

#### 6 When you finish, press MENU.



#### Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and the menu disappears automatically.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Erasing and adding channels are also available for the AUX input.

#### Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

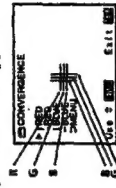
You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to adjust it manually.

#### 1 Press MENU.

#### 2 Press + or - to move the cursor (>) to SET UP and press RETURN.

#### 3 Press + or - to move the cursor (>) to CONVERGENCE and press RETURN.

The CONVERGENCE adjustment screen appears.

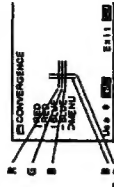


#### 4 Press + or - to move the cursor (>) to the symbol showing the line you want to adjust, and press RETURN.



- 1 RED: Red vertical line (left/right adjustment)
- 2 RED: Red horizontal line (up/down adjustment)
- 3 BLUE: Blue vertical line (left/right adjustment)
- 4 BLUE: Blue horizontal line (up/down adjustment)

#### 5 Press + or - to move the line until it converges with the center green line, and press RETURN.



To move up/right, press +.  
To move down/left, press -.

#### 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.

#### 7 Press MENU to return to the original screen.

#### Setting cable TV on or off

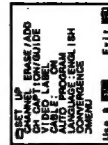
If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to set it manually.

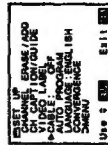
#### 1 Press MENU.

#### 2 Press + or - to move the cursor (>) to SET UP and press RETURN.

#### 3 Press + or - to move the cursor (>) to CABLE and press RETURN.



#### 4 Press + or - to select ON or OFF and press RETURN.



#### 5 Press MENU to return to the original screen.

#### Note

- If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.

## Presetting channels

You can preset TV channels easily by AUTO PROGRAM feature.

- 1** Press MENU.
- 2** Press  $\uparrow$  or  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to SET UP and press RETURN.



- 3** Press + ↑ or -- ↓ to move the cursor (▸) to **AUTO PROGRAM** and press **RETURN**.



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

- 4 Press MENU to return to the original screen.**

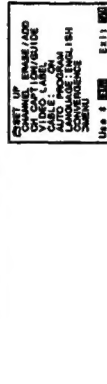
## Notes

- If **AUTO PROGRAM** appears in black in the **SET UP** menu, the projection TV is set to a video input and you cannot select **AUTO PROGRAM**. Press **TV/VIDEO** or **TV** on the remote commander so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Presetting channels is also available for the **AUX** input.

## Changing the menu language

**If you prefer Spanish or French to English, you can change the menu language. You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to set it manually.**

- 1 Press MENU.
- 2 Press +  $\uparrow$  or -  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to SET UP and press RETURN.
- 3 Press +  $\uparrow$  or -  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to LANGUAGE and press RETURN.



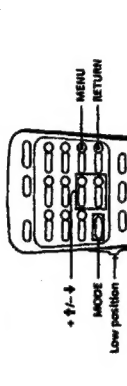
- 4** Press +  $\uparrow$  or -  $\downarrow$  to select the language and press RETURN.  
The menu in selected language appears.



- 5 Press MENU to return to the original screen.**

## Setting the clock

Set the current time before using On/off Timer (page 28) and Channel Block features (page 29). For example, set the clock to 3:15 p.m., Monday.



- 1 Press MENU.
- 2 Press +  $\uparrow$  or -  $\downarrow$  to select **TIMER/CLOCK** and press RETURN.



If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

- 3** Make sure the cursor (►) is beside **CURRENT TIME SET**, and press **RETURN**. If the cursor is not beside **CURRENT TIME SET**, press + **↑** or - **↓** to move the cursor and press **RETURN**.



**4 Set the current time.**

- (1) Press RETURN to start setting the time.



- (2) Press +  $\uparrow$  or  $\downarrow$  to set the day and press RETURN.



- (3) Using +  $\uparrow$  or -  $\downarrow$  and RETURN, set hour and minute in the same way as in step (2). When you press RETURN after setting the minute, the clock starts.



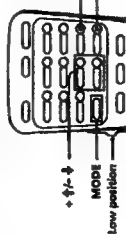
**If you make a mistake while setting the time**  
Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

**To display the current time**  
Press **DISPLAY**.

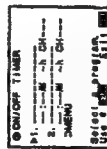
## Operations | 27-EN

## Setting the timer to turn the projection TV on and off (ON/OFF TIMER)

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.

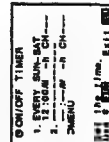


- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select **TIMER/CH BLOCK** and press RETURN.
- 3 Press + ↑ or - ↓ to select **ON/OFF TIMER** and press RETURN.

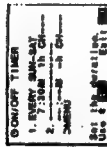


- 4 Enter the **ON/OFF TIMER** setting.  
(1) Press + ↑ or - ↓ to select program 1 or 2 and press RETURN.

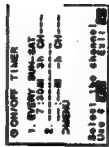
- (2) Press + ↑ or - ↓ to set the days and press RETURN.  
Each time you press + ↑ or - ↓, the days cycle as shown below.  
EVERY SUN-SAT → EVERY MON-FRI → SUNDAY → MONDAY → ... → SATURDAY → EVERY SUNDAY → EVERY MONDAY → ... → EVERY SATURDAY



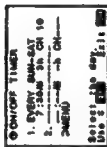
- (3) Press + ↑ or - ↓ to set the time (hour then minute) that you want to turn on the projection TV and press RETURN.



- (4) Press + ↑ or - ↓ to set the hour duration and press RETURN.  
You can set the hour duration by one hour up to a maximum of six hours.



- (5) Press + ↑ or - ↓ to select the channel and press RETURN.



The **TIMER/STAND BY** indicator on the projection TV lights.

- 5 To set the other program, press RETURN and repeat step 4.

One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the screen.

To cancel the timer

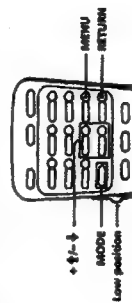
Press RESET on the remote commander.

Note

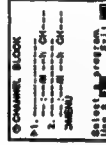
- If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

## Blocking out a channel (CHANNEL BLOCK)

This feature allows you to prevent children from watching unsuitable programs. Make sure the clock is set correctly. If it is not, set the clock first (page 27).

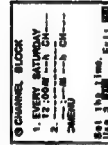


- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select **TIMER/CH BLOCK** and press RETURN.
- 3 Press + ↑ or - ↓ to select **CHANNEL BLOCK** and press RETURN.

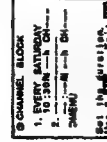


- 4 Enter a **CHANNEL BLOCK** setting.  
(1) Press + ↑ or - ↓ to select program 1 or 2 and press RETURN.

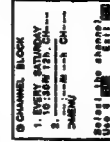
- (2) Press + ↑ or - ↓ to set the days and press RETURN.  
Each time you press + ↑ or - ↓, the days cycle as shown below.  
EVERY SUN-SAT → EVERY MON-FRI → SUNDAY → MONDAY → ... → SATURDAY → EVERY SUNDAY → EVERY MONDAY → ... → EVERY SATURDAY



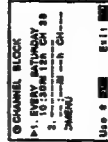
- (3) Press + ↑ or - ↓ to set the time (hour then minute) that you want to start blocking the channel and press RETURN.



- (4) Press + ↑ or - ↓ to select the hour duration you want to block and press RETURN.  
Each time you press RETURN, the hour duration increases by one hour up to a maximum of 12 hours.



- (5) Press + ↑ or - ↓ to select the channel and press RETURN.



If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

To cancel a **CHANNEL BLOCK** setting  
Press RESET on the remote commander.

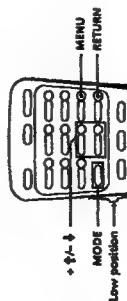
Note

- If the **CHANNEL BLOCK** and **ON/OFF TIMER** settings are overlapped, the later time setting has priority over the other setting.

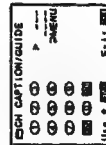
## Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

### Setting captions to favorite channels



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select SET UP and press RETURN.
- 3 Press + ↑ or - ↓ to select CH CAPTION/GUIDE and press RETURN.



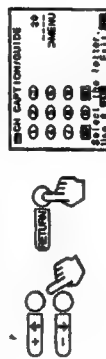
- 4 Press RETURN again.



- 5 Press + ↑ or - ↓ to select a channel guide number button and press RETURN.  
Each time you press + ↑ or - ↓, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



- 6 Press + ↑ or - ↓ to select the channel that you want to caption and press RETURN.



- 7 Enter the letters or numbers (up to four) to caption the channel:

(1) Press + ↑ or - ↓ to select the first letter (number).  
Each time you press + ↑ or - ↓, the letter (number) changes as shown below.

0-9 A-Z a-z \_ (blank space)



- (2) Press RETURN.



- (3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.



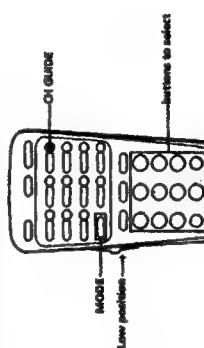
- 8 Repeat steps 4 to 7 to caption other channels.

To erase a caption  
Press RESET after step 4.

#### Notes

- The position number you already selected appears in yellow.
- If the CH CAPTION/GUIDE menu appears in black, the position TV is not in a video input and you cannot select CH CAPTION/GUIDE. Press TV so that a channel number appears.
- If more than 30 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption/guide feature is available for the AUX input.

### Selecting a captioned channel



- 1 Press CH GUIDE.  
The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.

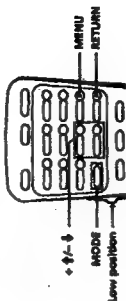


- 2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.

To cancel the CHANNEL GUIDE menu  
Press CH GUIDE again.

## Setting video labels (VIDEO LABEL)

This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select SET UP and press RETURN.
- 3 Press + ↑ or - ↓ to select VIDEO LABEL and press RETURN.

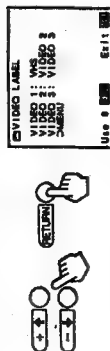


- 4 Press + ↑ or - ↓ to select the input mode you want to label and press RETURN.





- 5 Press + ↑ or - ↓ to select the label and press RETURN.



Each time you press + ↑ or - ↓, the label changes as shown below.

VIDEO 1 → S-VIDEO → BETA → 8mm → VHS → LD → DSS

VIDEO 2 → BETA → 8mm → VHS → LD → DSS

VIDEO 3 → BETA → 8mm → VHS → LD → DSS

- 6 Repeat steps 4 and 5 to label other input modes.

Note

- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

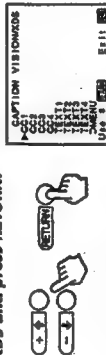
## Displaying Caption Vision (CAPTION VISION/XDS)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)

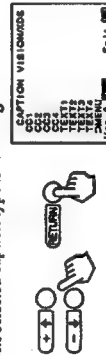
TEXT1, TEXT2, TEXT3 or TEXT4 shows you text that is information presented using either half or the whole screen. It is not usually related to the program.

- 1 Press MENU.

- 2 Press + ↑ or - ↓ to select CAPTION VISION/XDS and press RETURN.



- 3 Press + ↑ or - ↓ to select the caption type and press RETURN. The selected caption type is colored green.



To turn off the captions or text

Press DISPLAY on the remote commander. Each time you press DISPLAY, the display changes as follows:

on-screen information → XDS → Caption Vision or Text → DISPLAY OFF

"DISPLAY OFF" goes off after three seconds.

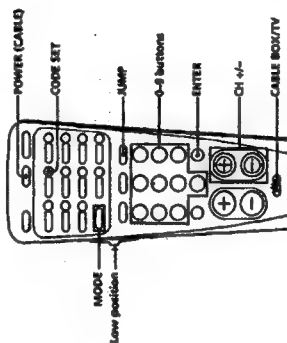
- Some programs are broadcast with XDS service which shows a time in show data, program name, program length, call letters and when you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

Note

- Captions may appear with a white box or another error instead of the caption. For a portion of TV programs can also cause errors in Closed Caption.

## Operating a cable box

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



- 1 Set the CABLE BOX/TV selector to CABLE BOX.



- 2 While pressing CODE SET, press 0-9 to enter the manufacturer's code number (see the chart below) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.



- 3 Use POWER (CABLE) and the projection TV control buttons (0-9, ENTER, JUMP and CH +/-) to operate the cable box.



To operate the projection TV  
Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box  
Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)

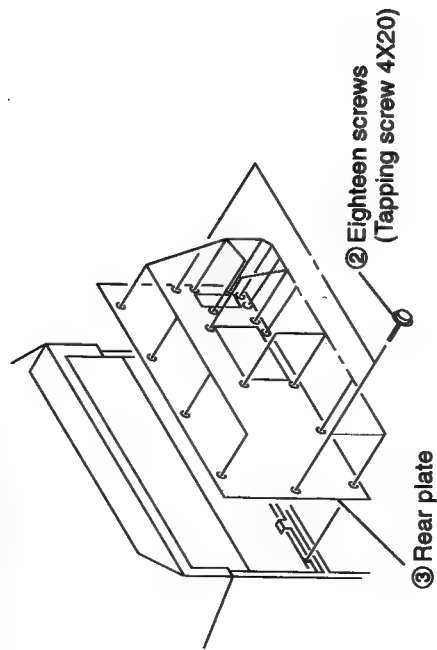
Manufacturer	Code number
HEROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

Notes

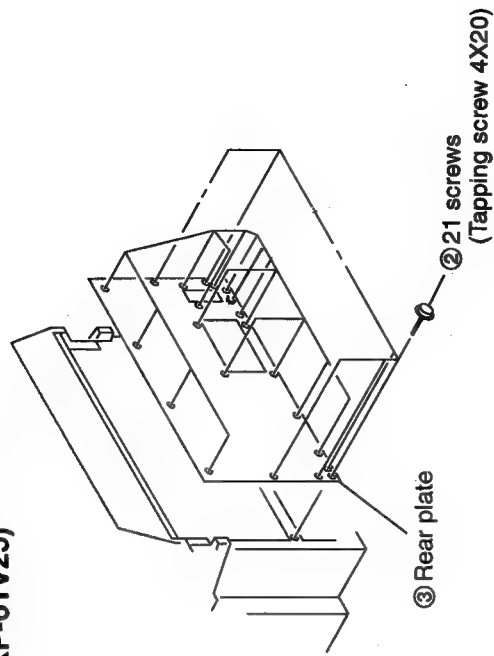
- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

## SECTION 2 DISASSEMBLY

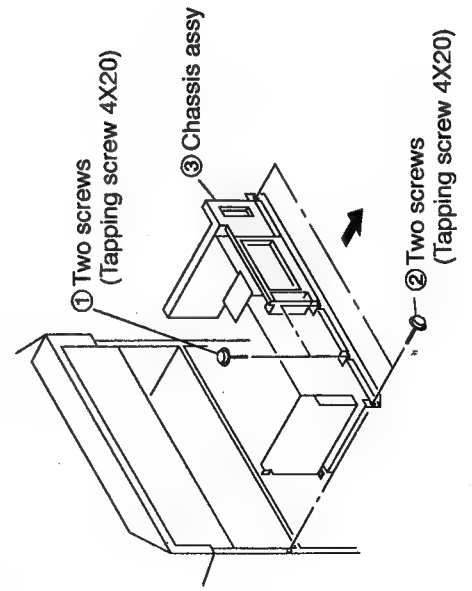
### 2-1-1. REAR PLATE REMOVAL (KP-46V25/53V25)



### 2-1-2. REAR PLATE REMOVAL (KP-61V25)

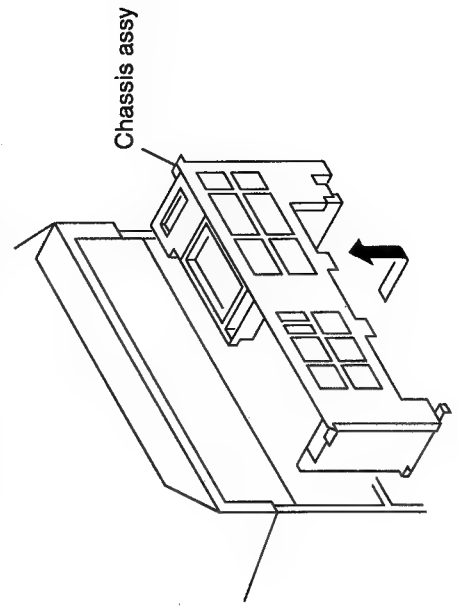


### 2-2. CHASSIS ASSY REMOVAL

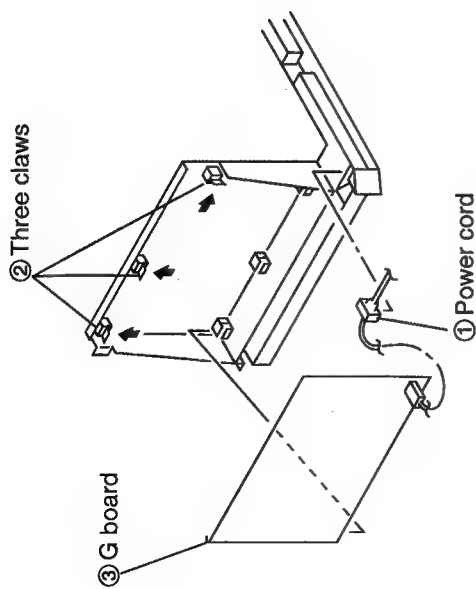


### 2-3. SERVICE POSITION

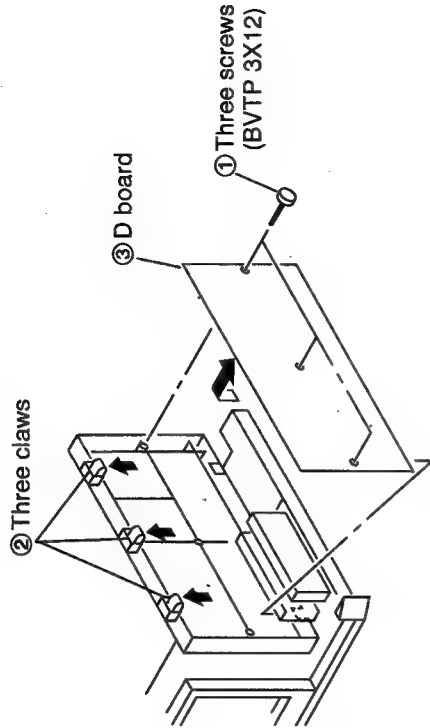
Remove the chassis assy (Refer to 2-2.)



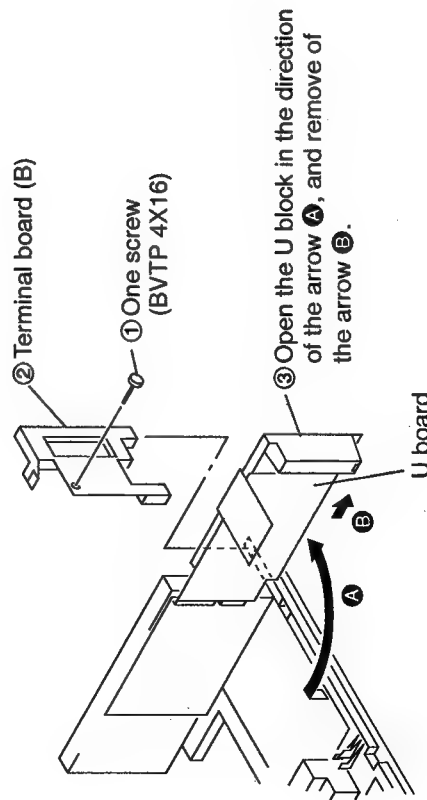
## 2-4. G BOARD REMOVAL



## 2-5. D BOARD REMOVAL

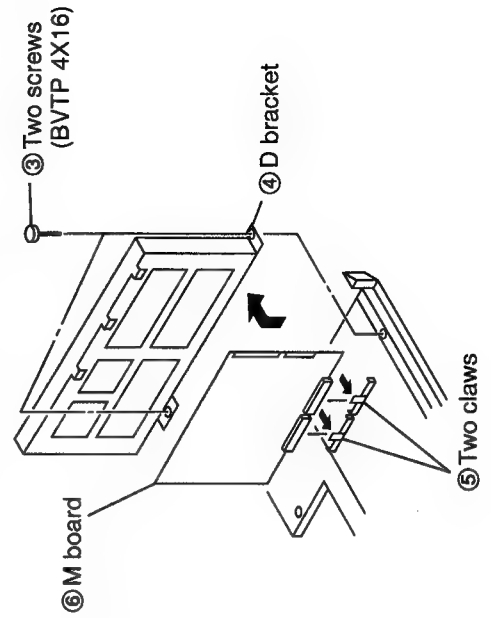


## 2-6. U BOARD REMOVAL

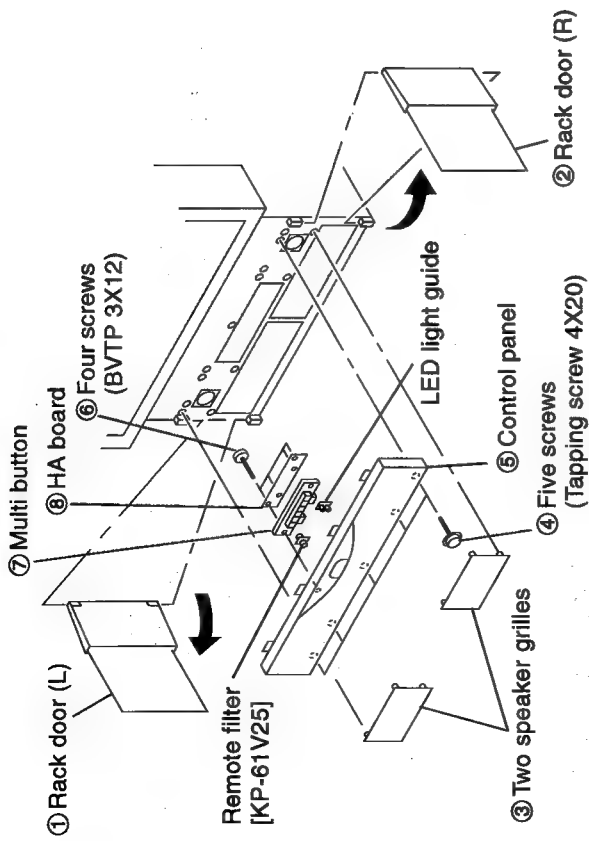


## 2-7. M BOARD REMOVAL

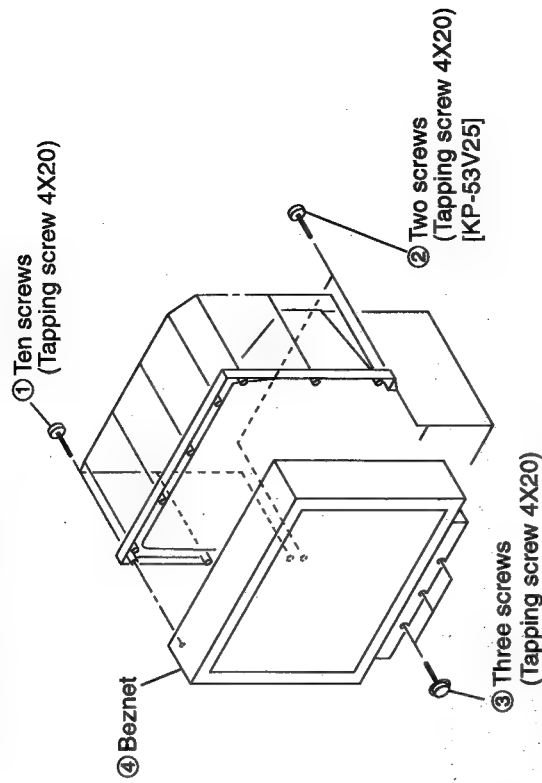
- ① Remove the D board. (Refer to 2-5.)
- ② Remove the U board. (Refer to 2-6.)



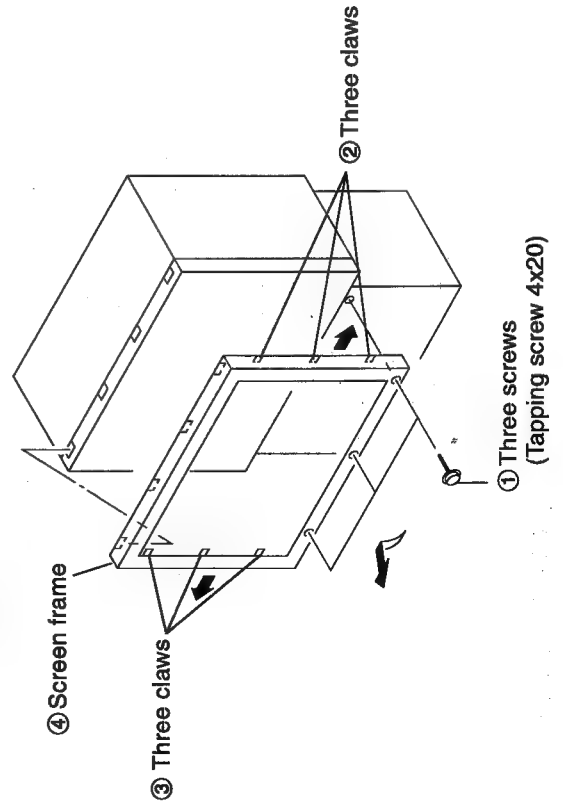
## 2-8. HA BOARD REMOVAL



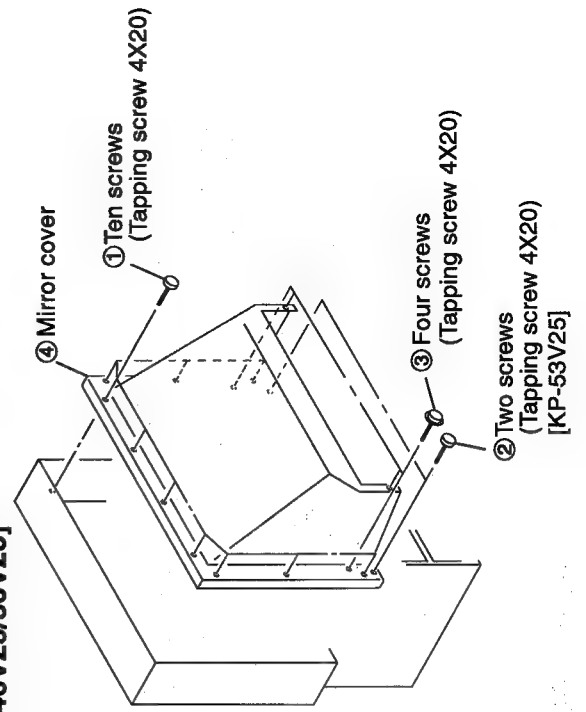
## 2-9-1. BEZNET REMOVAL [KV-46V25/53V25]



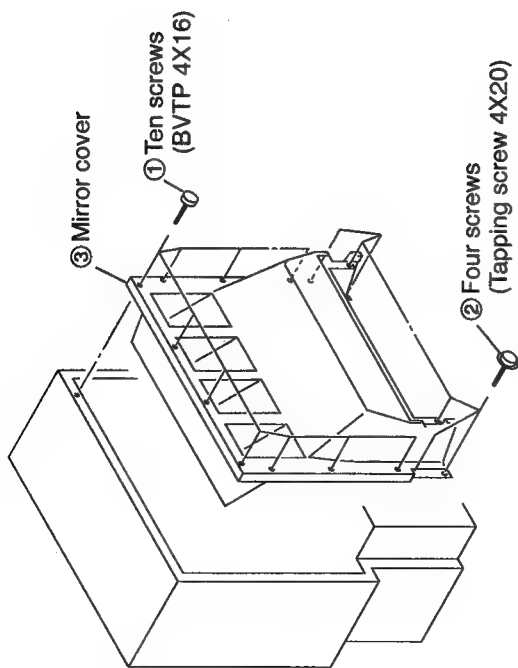
## 2-9-2. SCREEN FRAME REMOVAL [KP-61V25]



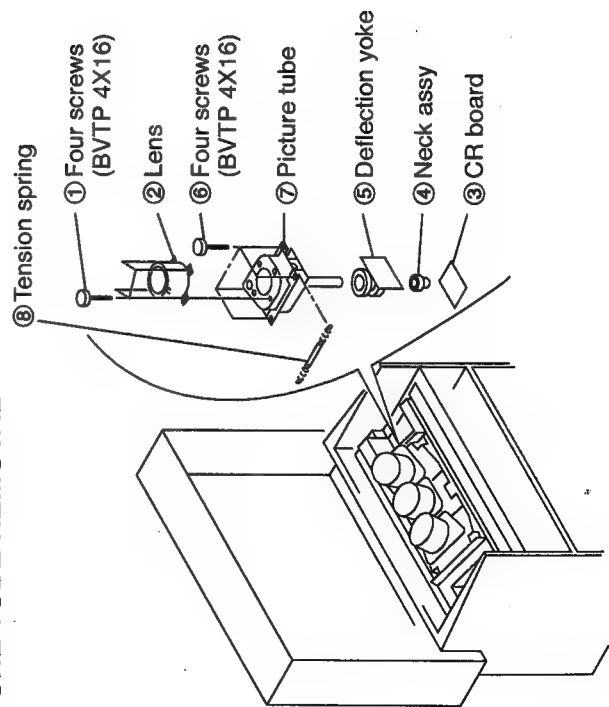
## 2-10-1. MIRROR COVER REMOVAL [KP-46V25/53V25]



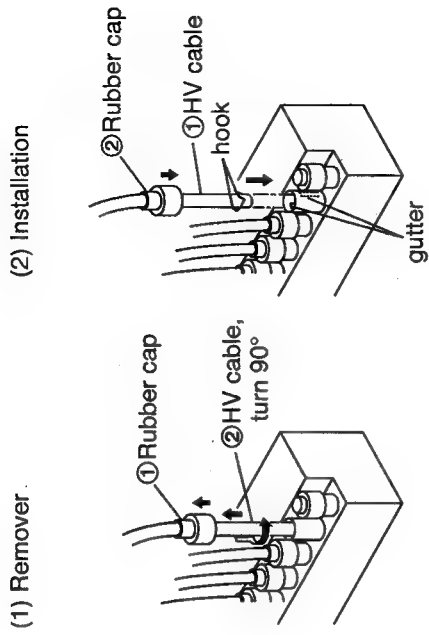
## 2-10-2. MIRROR COVER REMOVAL [KP-61V25]




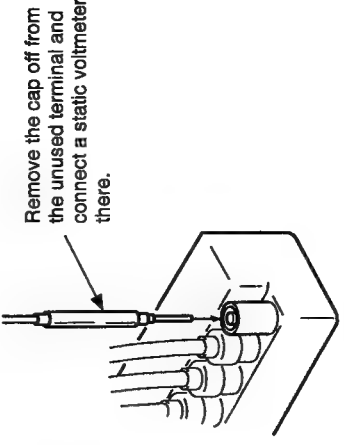
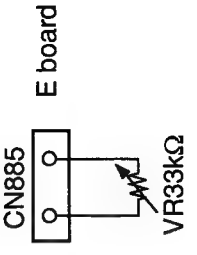
## 2-12. PICTURE TUBE REMOVAL



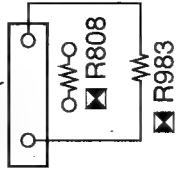


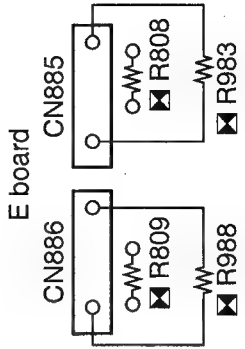
## 2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



## SECTION 3 SAFETY RELATED ADJUSTMENTS

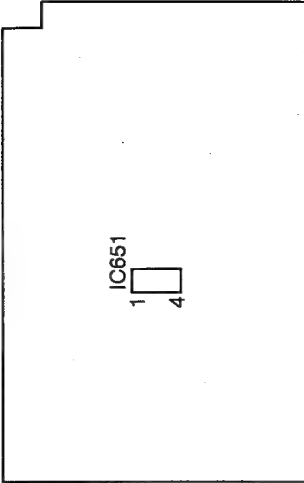
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*R RESISTOR)</b> </div> <p>When replacing the parts marked * on the right, check the HV hold down and adjust.</p>		<p>* marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T803, FBT ..... E board HV Block * HV Block</p>	<p>* R809, R988</p>	<p>E BOARD – COMPONENT SIDE –</p> 
<p>1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</p> <p>2. Input 130 VAC power.</p>	<p>*Static Voltmeter</p>			<p style="text-align: center;">*</p> 
<p>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p> <p>4. Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).</p>	<p>*Dot pattern</p>		<p>*PICTURE ..... minimum BRIGHTNESS ..... minimum</p>	<p style="text-align: center;">*</p> 



ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p>4. Check that the Static Voltmeter reading is <math>*31.0 \pm 0.4</math> kVDC.</p> <p>5. If the Static Voltmeter reading is <math>*30.5</math> kV or lower, remove resistor <math>*R808</math> and mount <math>*5.6</math> k<math>\Omega</math> 1/4W RN at <math>*R983</math>.</p> <p>6. If the Static Voltmeter reading is <math>*31.4</math> kV or higher, remove resistor <math>*R808</math> and mount <math>*8.2</math> k<math>\Omega</math> 1/4W RN at <math>*R983</math>.</p> <p>7. If the Static Voltmeter reading is <math>*32.0</math> kV or higher, remove resistor <math>*R808</math> and mount <math>*10.0</math> k<math>\Omega</math> 1/4W RN at <math>*R983</math>.</p> <p>8. If any of Items 5, 6 or 7 has been implemented, check Item 4 again.</p>			<p><math>*R983</math></p> <p><math>*R983</math></p> <p><math>*R983</math></p>	<p><math>*31.0 \pm 0.4</math> kVDC</p> <p><math>*30.5</math> kV or lower <math>*5.6</math> k<math>\Omega</math> 1/4W</p> <p><math>*31.4</math> kV or higher <math>*8.2</math> k<math>\Omega</math> 1/4W</p> <p><math>*32.0</math> kV or higher <math>*10.0</math> k<math>\Omega</math> 1/4W</p> <p><math>*CN885</math> (E board)</p> 
<div data-bbox="755 1396 828 1984" data-label="Section-Header"> <h4>HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT</h4> </div> <p>It is normally desirable that the HV hold down and HV regulation checks use a high-voltage meter. However, sometime one is not available, for example in the field, below is a simple adjustment method.</p> <p>When replacing parts with the  mark, replace both the resistors with the  mark <math>*R808</math> (R988) and <math>*R809</math> (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors! Always replace both with resistors one rank lower.</p>			<p><math>*R808</math> (R988) <math>*R809</math> (R983)</p>	<p><math>*</math></p> <p>E board</p> 

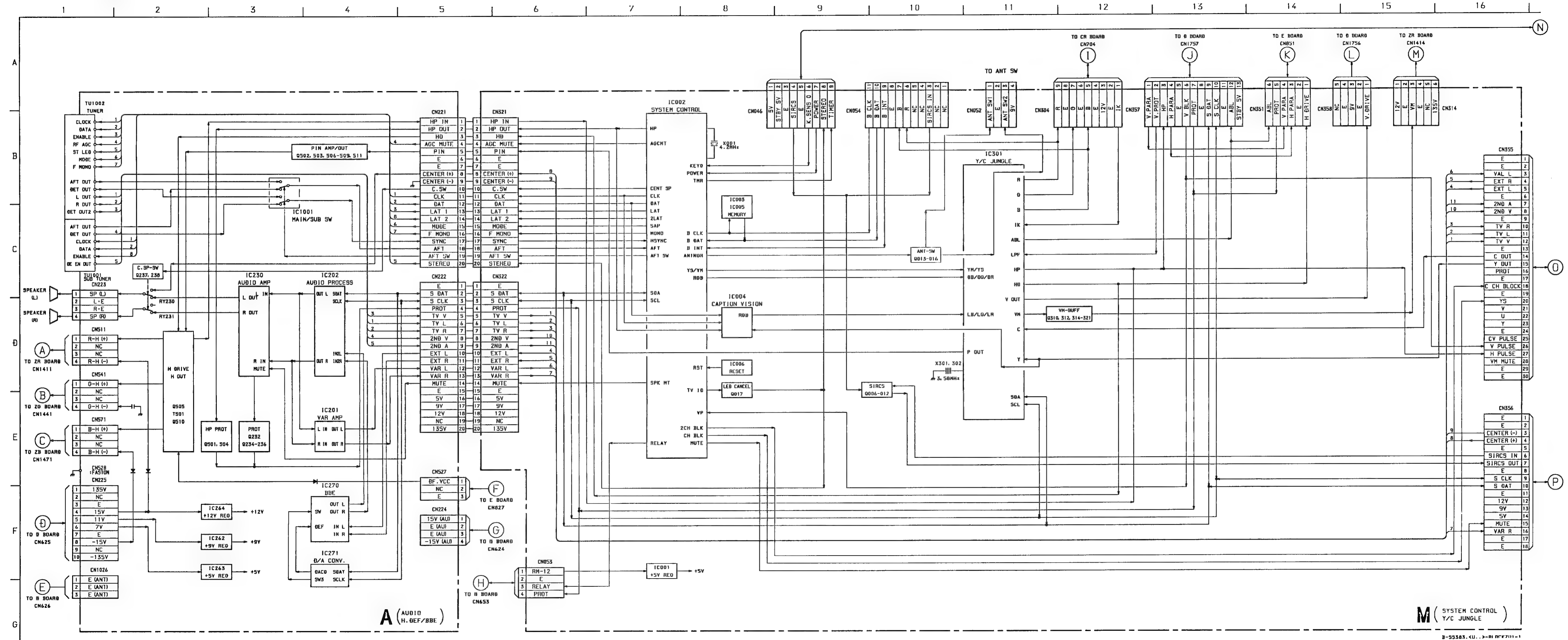


ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<div data-bbox="228 1346 310 1986" data-label="Section-Header"> <p><b>OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK</b></p> </div> <ol data-bbox="318 1304 886 1976" style="list-style-type: none"> <li>1. Connect a *220 k<math>\Omega</math> variable resistance rheostat to the G board C655 (between Pins ③ and ⑤ of IC651).</li> <li>2. Input *120.0 <math>\pm</math> 1.0 VAC, 60 Hz power.</li> <li>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> <li>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 <math>\pm</math> 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</li> <li>5. Remove the variable resistor and check the +B line voltage.</li> </ol>	<p>* Dot pattern</p> <p>* Digital Multimeter</p>		<p>* PICTURE ..... minimum BRIGHTNESS ..... minimum</p>	<div data-bbox="310 107 545 569" data-label="Diagram"> </div> <p>* 120.0 <math>\pm</math> 1.0 VAC, 60 Hz</p> <p>* 143.5 <math>\pm</math> 5.5 VDC</p>
<div data-bbox="902 1304 943 1986" data-label="Section-Header"> <p><b>BEAM CURRENT (<math>\Sigma</math>IK) PROTECTION CIRCUIT CHECK</b></p> </div> <ol data-bbox="951 1325 1268 1976" style="list-style-type: none"> <li>1. Connect the *ABL ammeter between *Pins ① and ④ of the CN884 on the E board. Have Pins ② and ③ open.</li> <li>2. Input *120.0 <math>\pm</math> 1.0 VAC, 60 Hz power.</li> <li>3. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	<p>* Ammeter</p> <p>* Monoscope pattern</p>		<p>* PICTURE ..... minimum BRIGHTNESS ..... minimum</p>	<div data-bbox="943 191 1138 506" data-label="Diagram"> </div> <p>* 120.0 <math>\pm</math> 1.0 VAC, 60 Hz</p>

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p>4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.</p> <p><b>+B, +B MAX CHECK</b></p> <p>When replacing the G board IC651, check the following.</p>			*PICTURE BRIGHTNESS	<p>* Less than 3.35 mA</p> <p>E BOARD – COMPONENT SIDE –</p>  <p>IC651</p> <p>1 4</p>
<ol style="list-style-type: none"> <li>1. Input *120.0 ± 1.0 V, 60 Hz power.</li> <li>2. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> <li>3. Check that the *+B line voltage is now *135.0 ± 2.0 VDC.</li> <li>4. Set the power supply to *130.0 <sup>+2.0</sup><sub>-0</sub> VAC.</li> <li>5. Check that the *+B line voltage is *137.0 VDC max.</li> <li>6. If either 3 or 5 is not satisfied, replace IC651 again.</li> </ol>	*Dot pattern	<p>*CN681 pin ①</p> <p>*CN681 pin ①</p>	<p>*PICTURE .....minimum BRIGHTNESS .....minimum</p>	<p>* 120.0 ± 1.0 V, 60 Hz</p> <p>* 135.0 ± 2.0 VDC</p> <p>* 130.0 <sup>+2.0</sup><sub>-0</sub> VAC</p> <p>* Less than 137.0 VDC</p>

# SECTION 4 DIAGRAMS

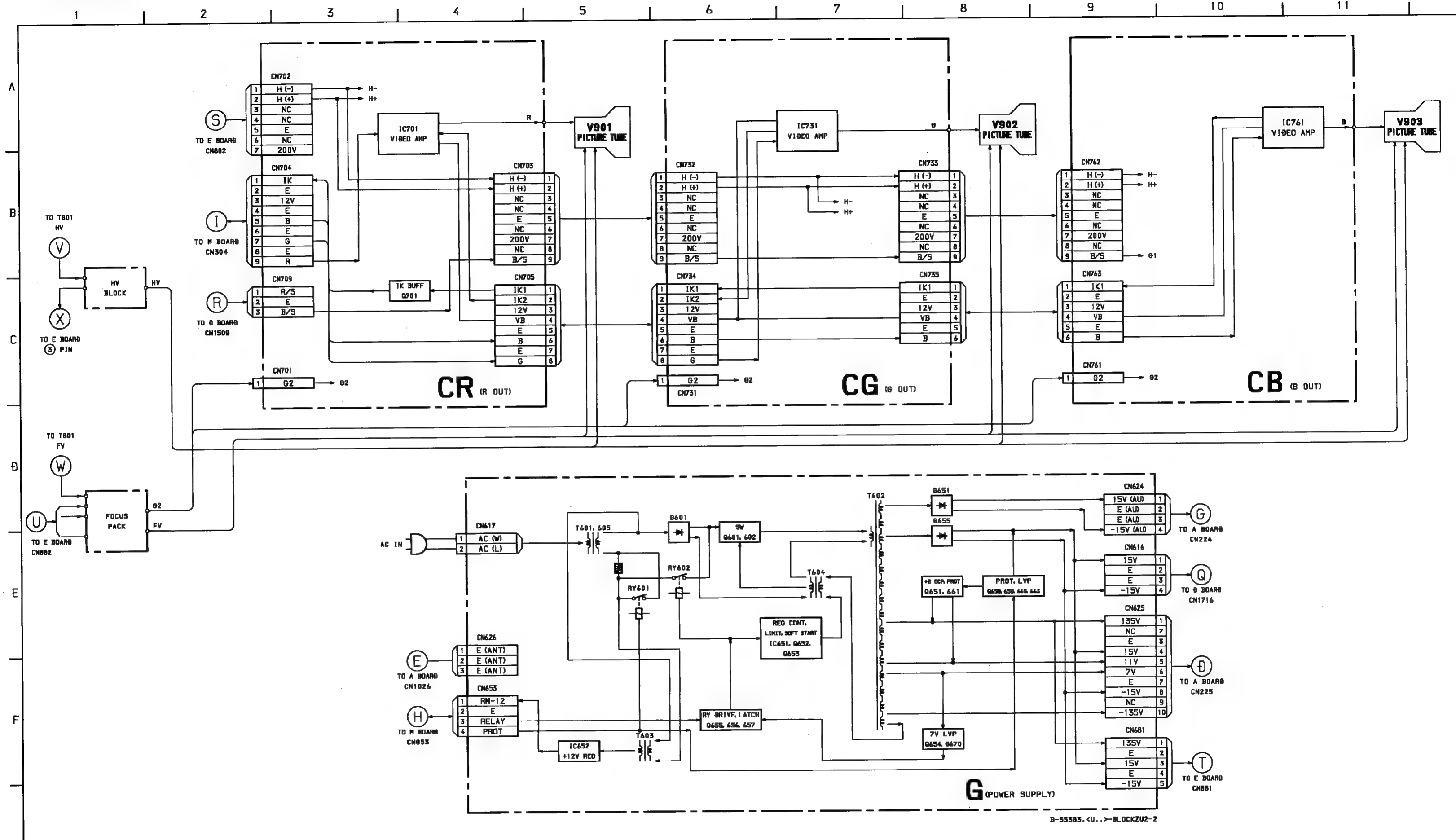
4-1. BLOCK DIAGRAMS (1)





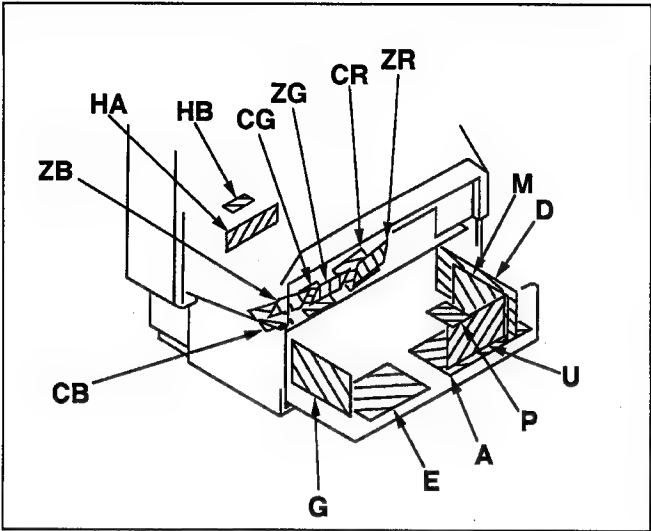


# BLOCK DIAGRAMS (4)





4-2. CIRCUIT BOARDS LOCATION



4-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- Note :
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
  - All resistors are in ohms.
  - $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$
  - Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm  
Rating electrical power : 1/4W

- : nonflammable resistor.
- : fusible resistor.
- $\Delta$  : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R808, R809, R983 and R988 adjustment on Page 18 - 22.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
HV Block Q915, D804, D806, D809, D909, D912, C818, R809, R855, R856, R857, R858, R854, R955, R983, R984, R988, R991, R995, R998, R998, T801 (FBT), T803 .....E BOARD	HV HOLD-DOWN (R809, R988)
HV Block Q909, D902, D920, D925, C918, C930, C934, C980, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R965, R967, R971, R975, R976, R982, R983, R985, R998.....E BOARD	HV Reagurater (R808, R983)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Measurement impossibility.
- Circled numbers are waveform references.
- : B+ bus.
- : B- bus.
- : signal path.(RF)

Note: The symbol display is on the component side.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as maked.

Note: Les composants identifiés par un tramé et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

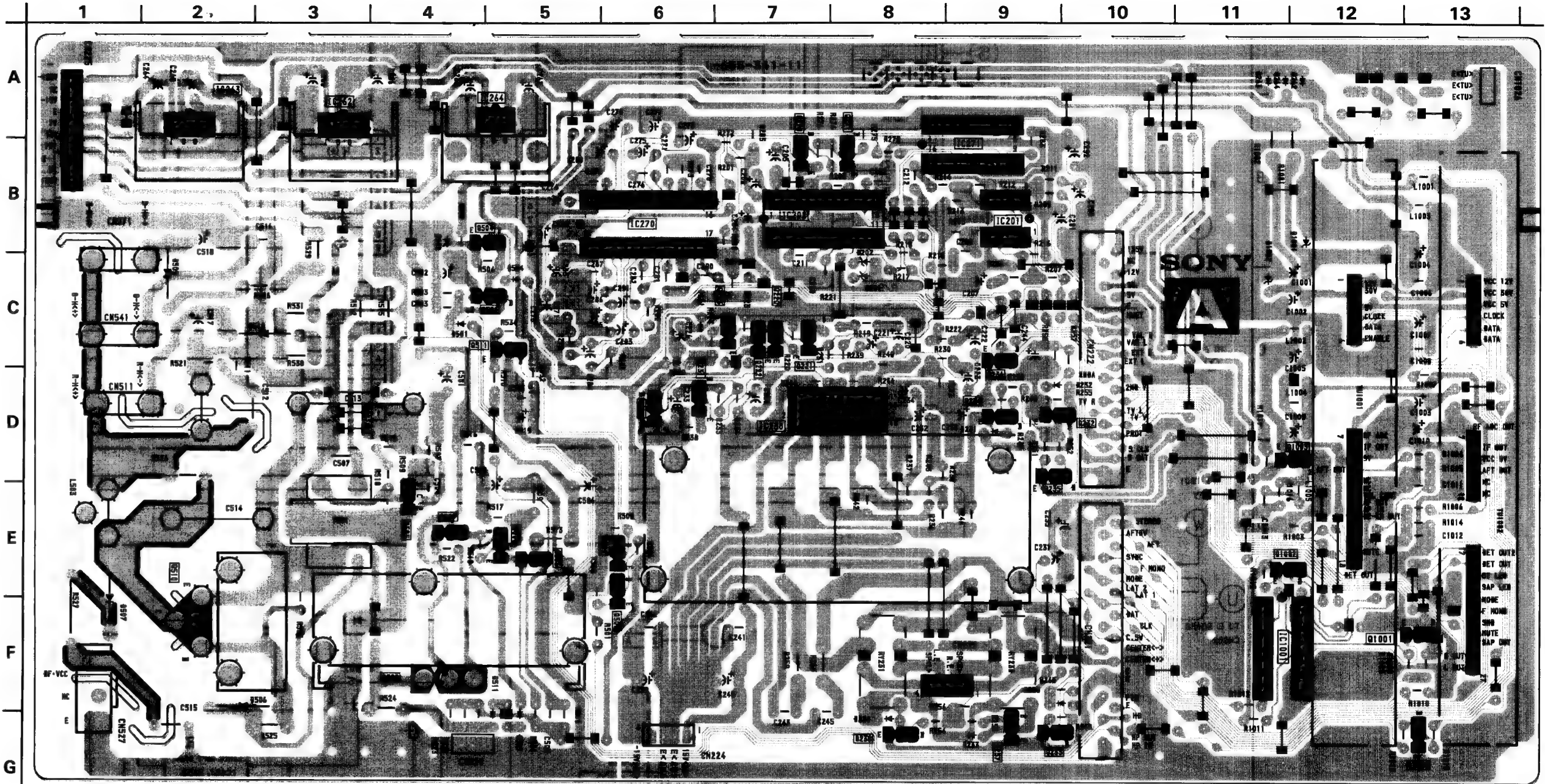
Le symbole indique une fusible a action rapide. Doit étre remplacée par une fusible de meme yaleur, comme maque.

A BOARD

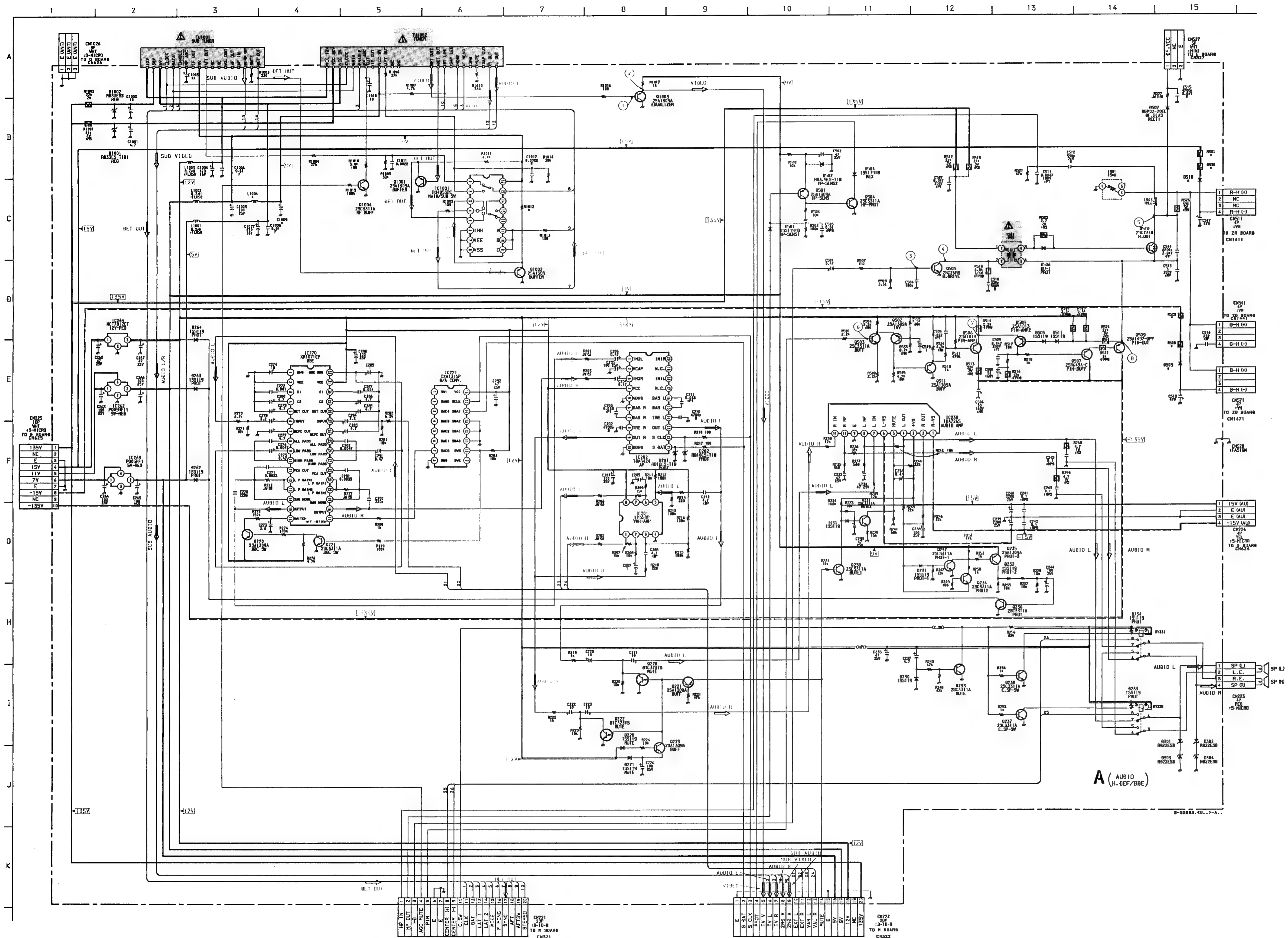
IC	
IC201	B-9
IC202	B-7
IC230	D-8
IC262	A-3
IC263	A-2
IC264	A-5
TRANSISTOR	
Q220	C-7
Q221	C-7
Q223	C-7
Q230	D-6
Q231	D-6
Q232	D-10
Q234	D-9
Q235	E-10
Q236	D-9
Q501	C-5
Q502	E-6
Q503	E-6
Q504	B-5
Q505	E-4
Q506	E-5
Q507	E-4
Q508	E-5
Q509	F-4
Q510	F-2
Q511	C-5
Q1003	D-12
Q1004	G-13
DIODE	
D201	C-8
D202	C-8
D220	D-6
D221	C-6
D230	F-9
D231	D-9
D232	D-10
D233	F-9
D234	F-8
D235	D-6
D262	A-12
D263	A-11
D264	A-12
D501	C-4
D502	B-4
D504	C-5
D505	G-5
D506	G-3
D507	F-1
D509	C-2
D510	C-3
D511	G-5
D1001	B-12
D1002	C-11

A [AUDIO,  
H. DEF/BBE]

- A BOARD -







# A BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V

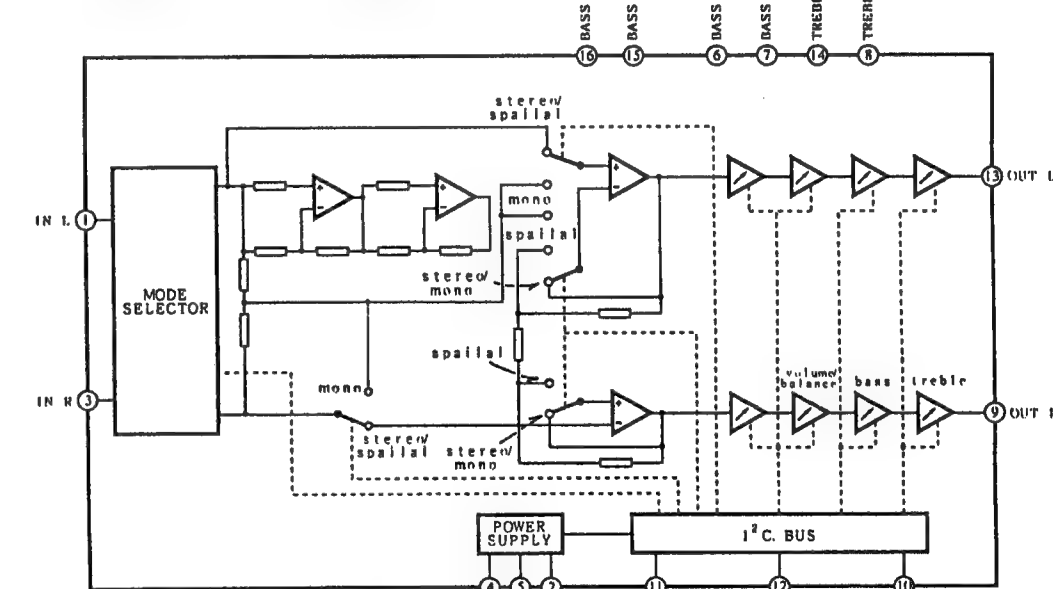
IC201	1	6.1	3 6.1	5 6.1	7 6.1
	2	6.1	4 GND	6 6.1	8 12.0
IC202	1	6.0	5 GND	9 6.1	13 6.1
	2	12.0	6 6.1	10 GND	14 6.1
	3	6.0	7 6.1	11 4.6	15 6.1
	4	12.0	8 6.1	12 4.6	16 6.1
IC230	1	-16.3	4 0	7 0	10 0
	2	0	5 10.6	8 0	11 0
	3	15.0	6 -16.3	9 GND	
IC262	1	11.0	2 9.0	3 GND	4 11.0
IC263	1	7.0	2 5.0	3 GND	4 7.0
IC264	1	15.0	2 GND	3 12.0	
IC270	1		8	15	22
	2	GND	9	16	23
	3		10	17	24
	4		11	18	25
IC271	1	NC	5 NC	9 NC	13 NC
	2	NC	6 NC	10	14
	3	NC	7	11 GND	15
	4	NC	8 GND	12 GND	16 12.0
IC1001	1		5	9	13 NC
	2		6 GND	10	14 NC
	3		7 GND	11	15
	4		8 GND	12 NC	16 9.0

# A BOARD \* MARK

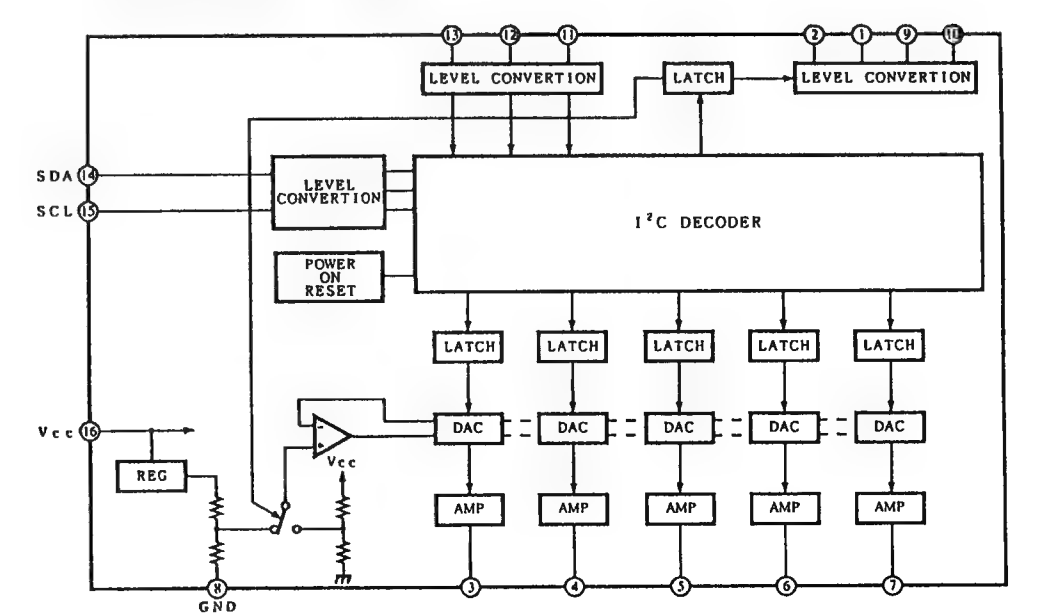
Ref.No.	KP-46V25 (U/C)	KP-53V25 (US)	KP-61V25 (US)
D509	V06C-T52	V06C-T52	—
D510	V06C-T52	V06C-T52	—
R528	270 3W	270 3W	—
R529	270 3W	270 3W	—
R530	270 3W	270 3W	—
R531	270 3W	270 3W	—

— : NOT MOUNT

# A BOARD IC202 TDA8424



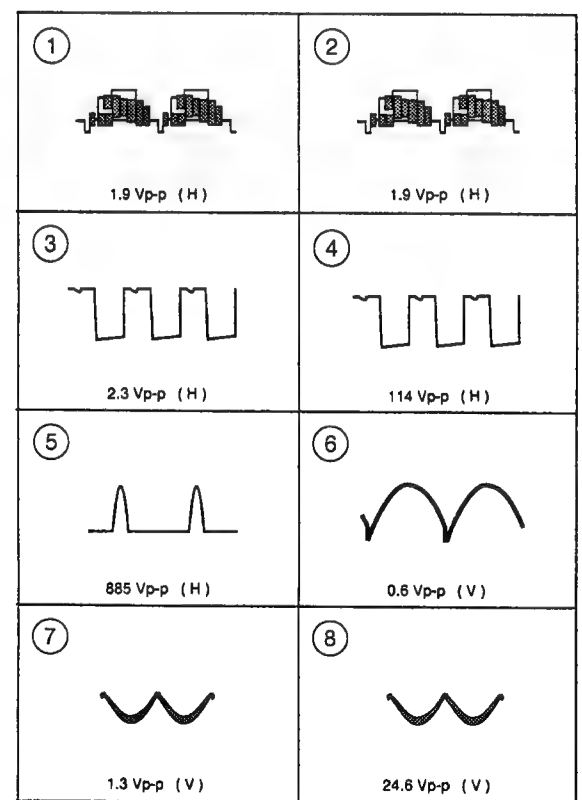
# A BOARD IC201 LM358P



# A BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q220	GND	0	2.8
Q221	2.8	2.8	2.8
Q222	GND	0	2.8
Q223	11.9	2.8	11.1
Q230	GND	0	0.7
Q231	0	10.6	0
Q232	GND	9.0	0
Q233	GND	9.0	0
Q234	0	9.0	0
Q235	9.0	0	9.0
Q236	GND	4.6	0
Q237	GND		
Q238	GND		
Q270	12.0		
Q271	GND		
Q501	3.2	0	4.1
Q502	6.9	0.9	6.4
Q503	3.1	6.9	3.7
Q504	GND	4.9	0
Q505	GND	63.7	-0.7
Q506	2.1	-54.0	1.6
Q507	-124.3	-137.3	-121.6
Q508	2.1	-121.6	1.7
Q509	-122.9	-137.3	-123.2
Q510	-122.9	*	-123.5
Q511	1.6	GND	0.9
Q1001	GND	GND	
Q1002	9.0	GND	
Q1003	5.6	GND	5.1
Q1004	GND	0	0

# A BOARD WAVEFORMS





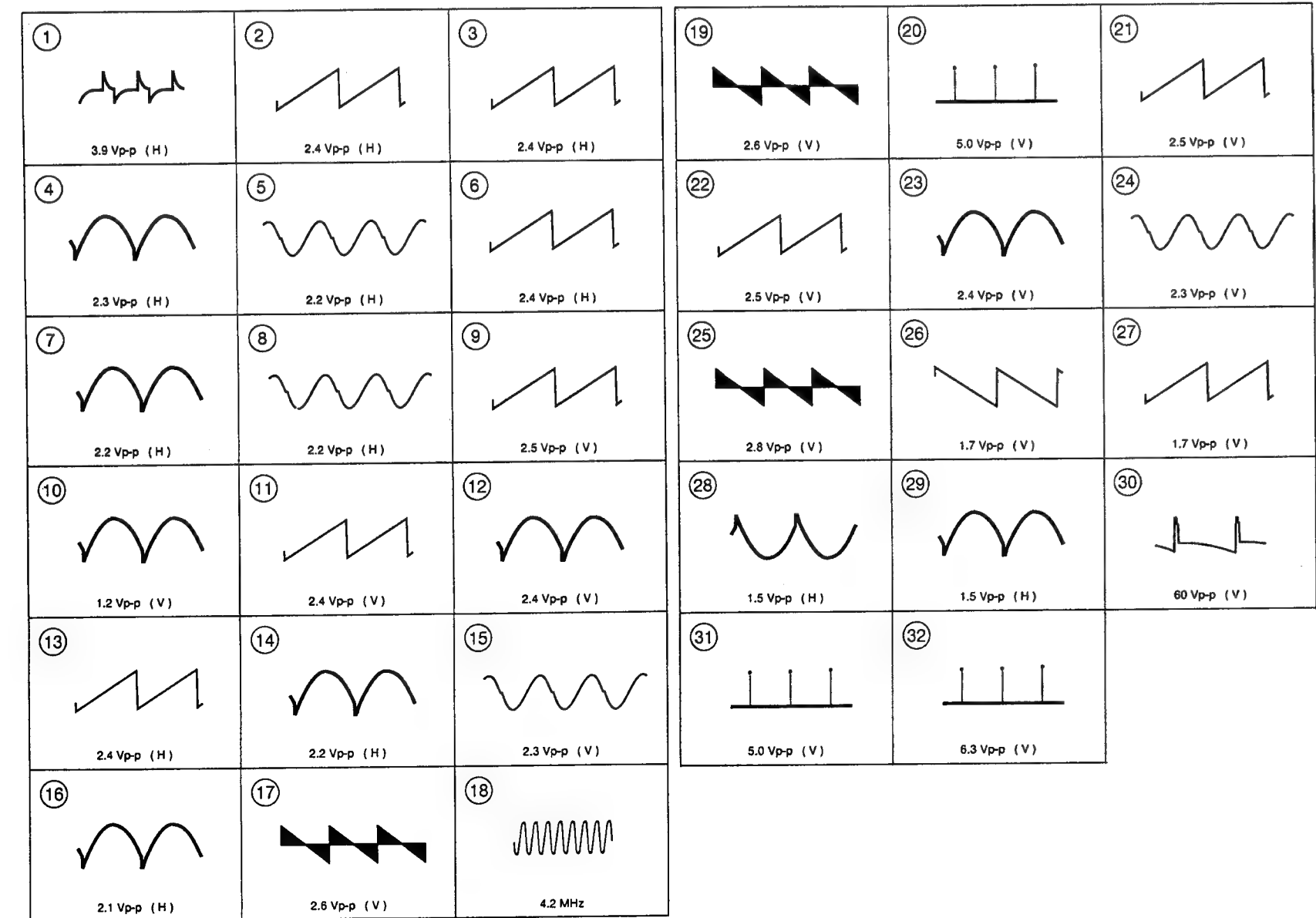
# D BOARD IC VOLTAGE LIST

IC1501	1 1.5 2 15.0	3 -13.8 4 -15.0	5 0.3 6 15.0	7 1.5	
IC1601	1 -133 2 -133 3 -133 4 0 5 0	6 0.4 7 0.4 8 GND 9 0 10 0	11 14.2 12 -14.3 13 -14.3 14 14.2 15 15.0	16 -15.0 17 -15.0 18 15.0 19 -15.0 20 0	21 0 22 0
IC1602	1 -133 2 -133 3 -133 4 0.2 5 0.2	6 -0.1 7 -0.1 8 GND 9 -0.5 10 -0.5	11 14.2 12 -14.3 13 -14.3 14 14.2 15 15.0	16 -15.0 17 -15.0 18 15.0 19 -15.0 20 -0.2	21 -0.9 22 0.3
IC1701	1 NC 2 NC 3 NC 4 NC 5 NC 6 NC 7 NC 8 NC 9 NC 10 NC 11 NC 12 NC 13 NC 14 NC	15 NC 16 NC 17 NC 18 NC 19 NC 20 NC 21 5.1 22 NC 23 NC 24 3.2 25 NC 26 NC 27 NC 28 NC	29 NC 30 0.7 31 0.3 32 GND 33 GND 34 2.7 35 2.5 36 5.2 37 NC 38 NC 39 0 40 0 41 0 42 0	43 0 44 0 45 NC 46 GND 47 GND 48 GND 49 NC 50 NC 51 NC 52 NC 53 NC 54 4.7 55 NC 56 4.6	57 NC 58 NC 59 NC 60 NC 61 GND 62 GND 63 5.0 64 5.0
IC1702	1 5.2 2 5.0 3 GND				
IC1801	1 0 2 -0.9 3 0 4 -1.1 5 0 6 -0.4 7 GND 8 5.2 9 -5.0	10 3.4 11 5.1 12 0.7 13 3.2 14 -2.1 15 0 16 -0.9 17 0 18 -0.9	19 0 20 -0.5 21 5.0 22 0 23 1.5 24 0 25 0 26 0 27 0	28 0 29 0 30 0 31 3.2 32 0.7 33 5.2 34 0 35 0 36 0	37 0 38 0 39 0 40 0.2 41 0 42 GND
IC1802	1 0.8 2 1.2 3 5.0 4 0	5 -0.9 6 0 7 -1.1 8 0	9 -5.0 10 0.3 11 0.6 12 -0.9	13 0.4 14 1.3 15 GND 16 -1.7	17 1.3 18 -1.6

## D BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q1501	0.2	9.0	-0.5
Q1551	4.0	2.1	3.4
Q1651	1.5	12.0	2.1
Q1701	GND	3.5	0.3
Q1801	2.6	5.0	3.2
Q1802	-3.5	-5.0	-3.1
Q1803	GND	4.8	0
Q1804	-0.3	0	-0.9
Q1805	GND	4.8	0

## D BOARD WAVEFORMS

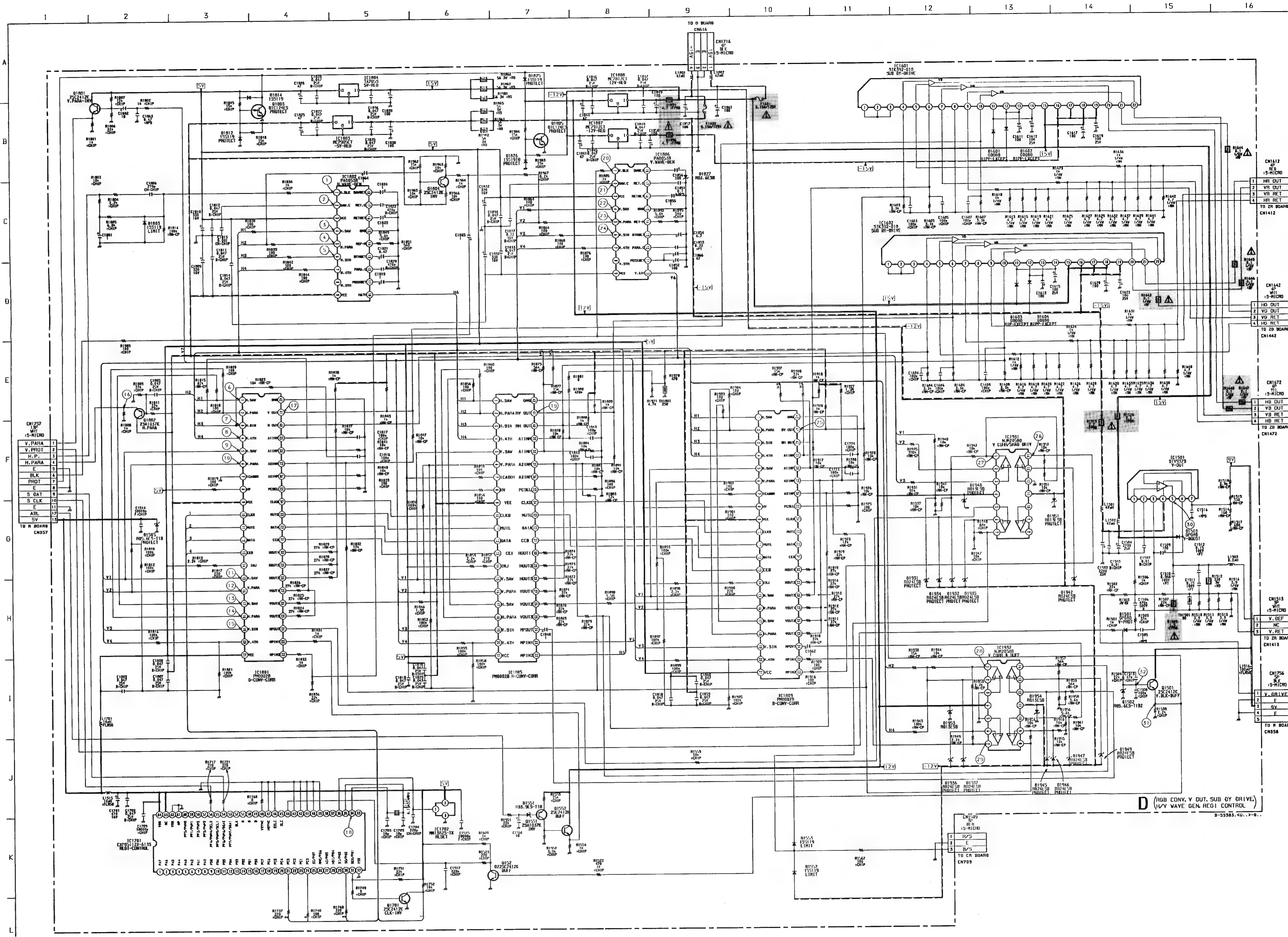


Schematic diagrams

← A board

Schematic diagrams

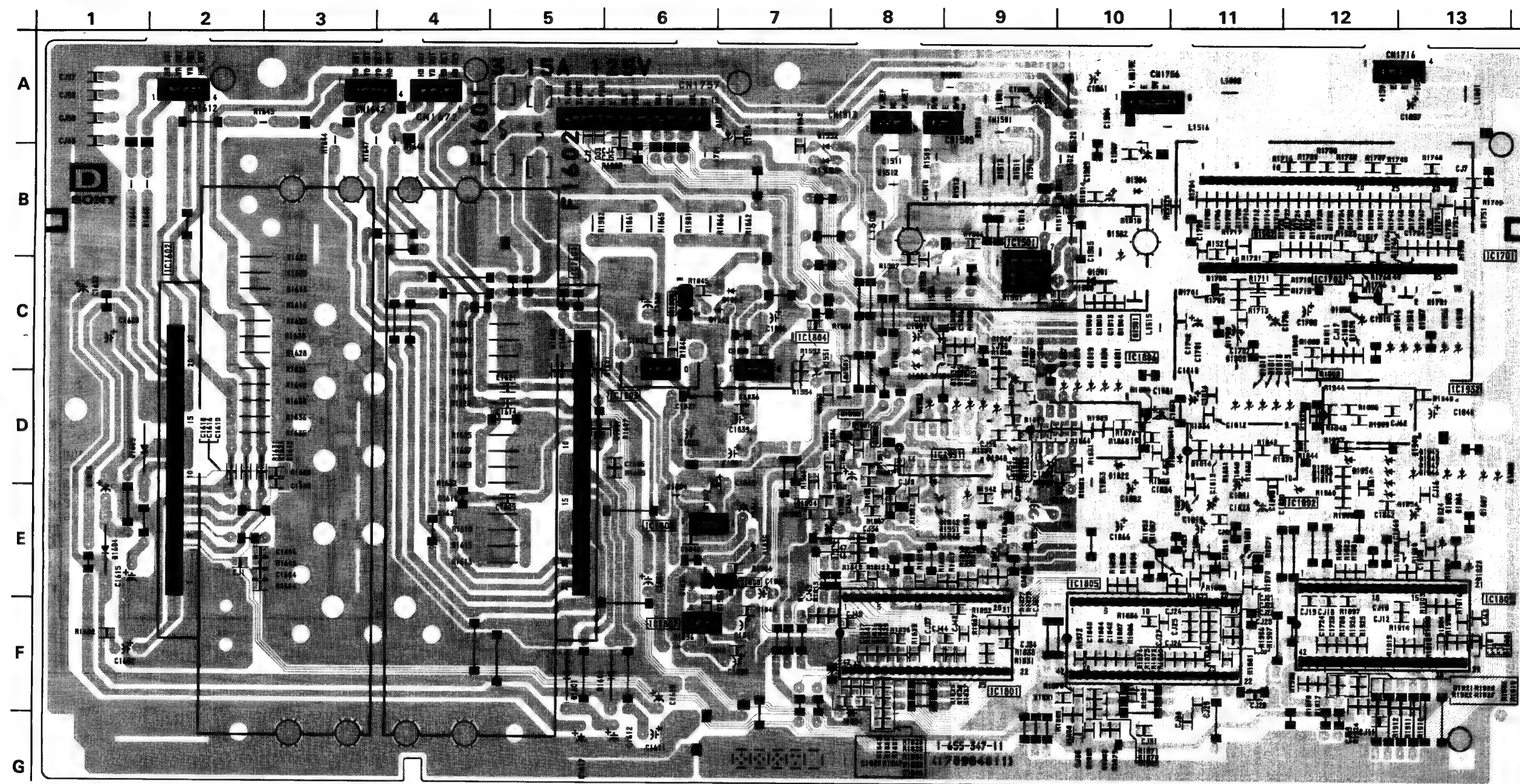
D board →





**D** [RGB CONV, V OUT, SUB DY DRIVE,  
H/V WAVE GEN, REGI CONTROL]

— D BOARD —

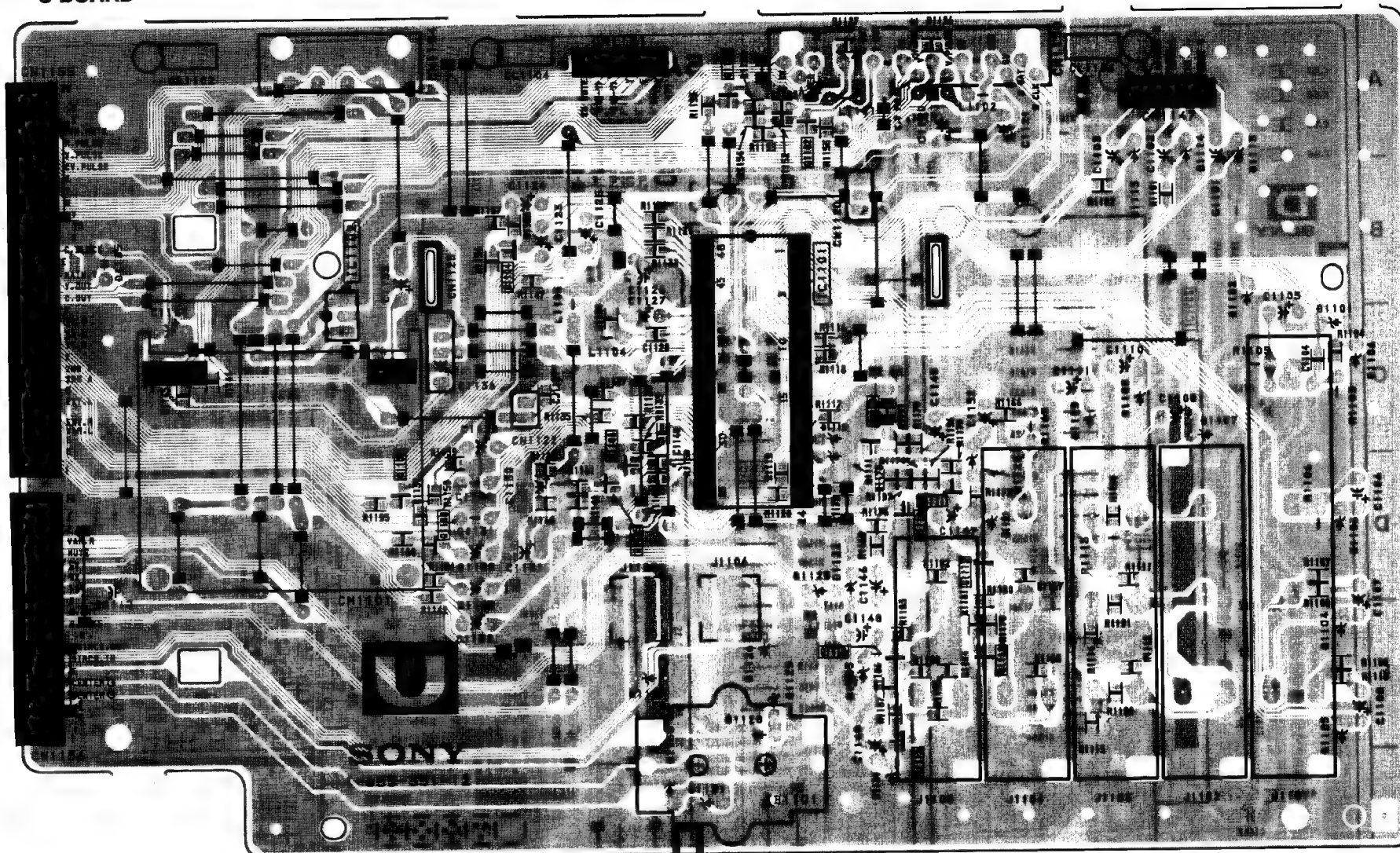


**D BOARD**

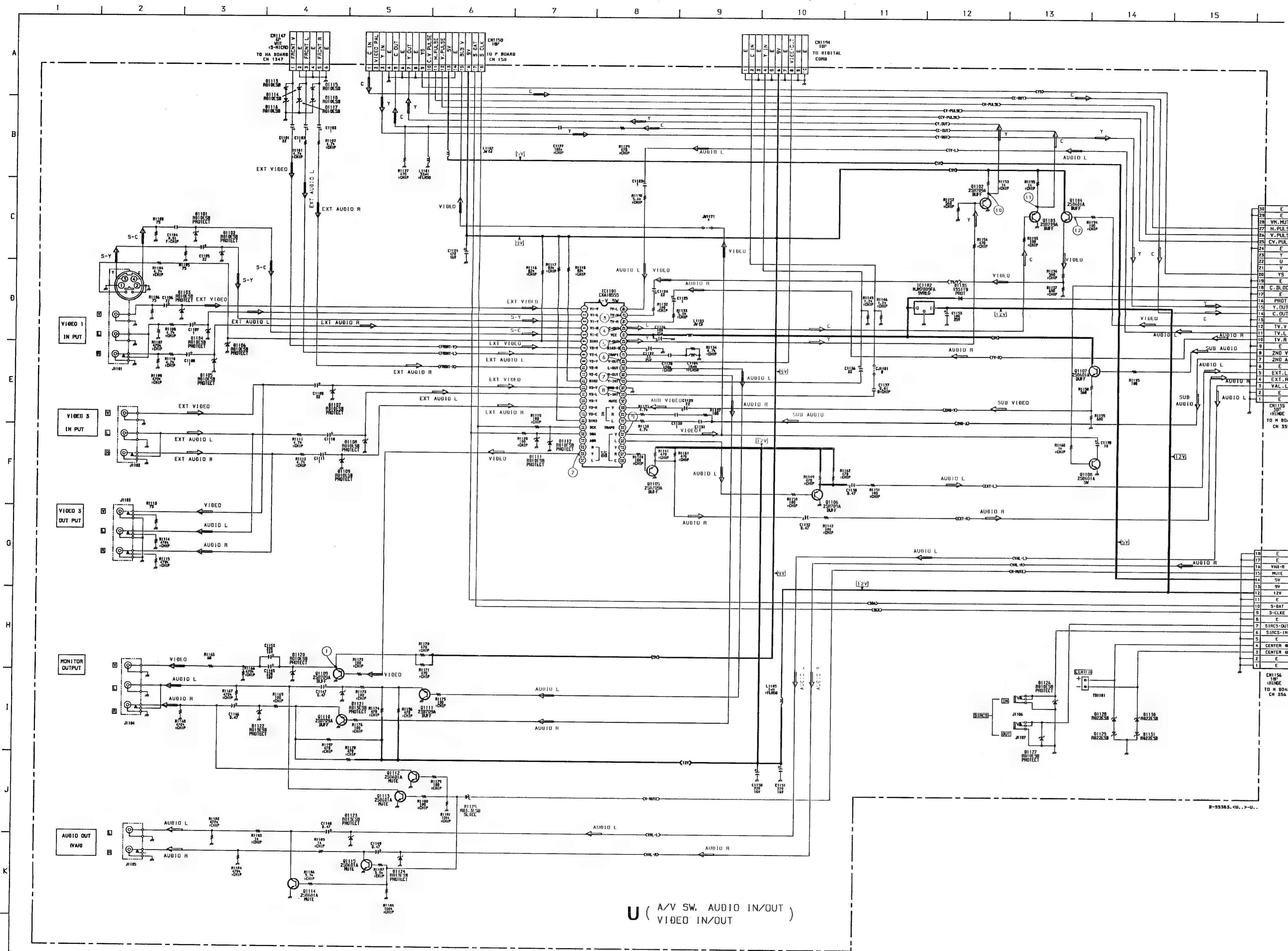
IC	IC1807	F-7	Q1802	C-12	D1601	F-5	D1935	D-9
IC1501	IC1808	E-7	Q1803	C-6	D1602	F-6	D1936	C-13
IC1601	IC1809	F-12	Q1804	E-8	D1603	D-2	D1937	C-13
IC1602	IC1931	D-9	Q1805	E-7	D1604	E-1	D1942	E-9
IC1701	IC1932	D-13	DIODE		D1803	D-11	D1945	D-13
IC1702	TRANSISTOR		D1501	C-10	D1812	C-7	D1946	E-13
IC1801	Q1501	C-10	D1502	B-10	D1814	C-7	D1947	E-13
IC1802	Q1502	B-11	D1503	B-10	D1825	E-7	D1948	D-9
IC1803	Q1551	D-8	D1505	A-6	D1826	E-6	D1949	D-13
IC1804	Q1552	D-8	D1551	D-8	D1827		D1951	E-9
IC1805	Q1701	B-13	D1552	B-8	D1931	D-9	D1953	C-12
IC1806	Q1801	D-8	D1553	B-8	D1932	D-9	D1954	D-12
					D1934	D-9		

**U** [COM FILTER, AV, SW,  
VIDEO OUT, AUDIO OUT]

— U BOARD —







# U BOARD IC VOLTAGE LIST

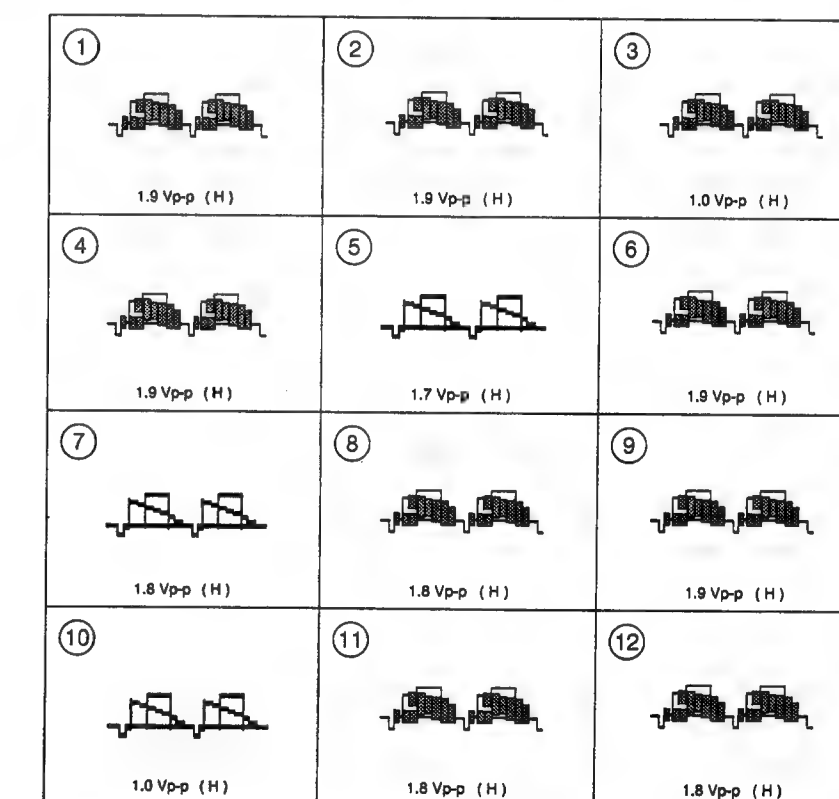
ALL VOLTAGES ARE IN V

IC1101	1	4.7	11	NC	21	NC	31	4.7	41	4.7
	2	4.7	12	5.0	22	NC	32	4.7	42	4.7
	3	4.7	13	4.7	23	4.6	33	4.7	43	4.4
	4	4.7	14	4.7	24	NC	34	NC	44	9.0
	5	4.7	15	NC	25	NC	35	4.7	45	4.7
	6	5.0	16	4.7	26	4.8	36	GND	46	4.7
	7	3.6	17	NC	27	NC	37	4.7	47	4.7
	8	4.7	18	5.0	28	4.8	38	4.8	48	4.7
	9	NC	19	4.6	29	4.6	39	4.8		
	10	4.7	20	4.6	30	4.7	40	4.6		

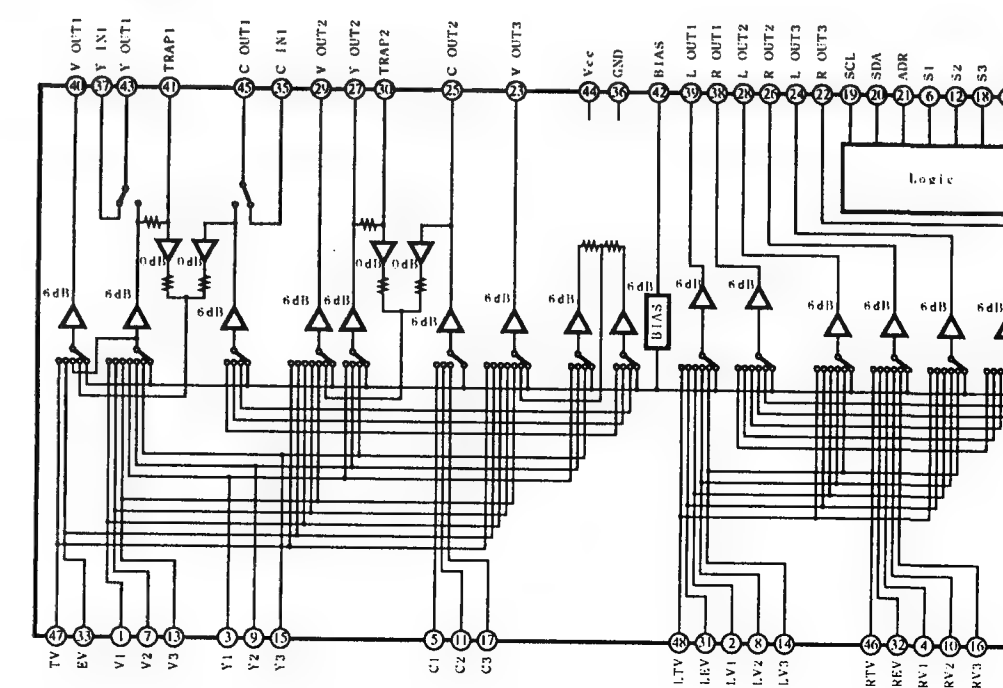
# U BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q1102	3.1	GND	2.5
Q1103	5.3	GND	4.7
Q1104	5.1	9.0	5.8
Q1105	5.4	GND	4.8
Q1106	5.4	GND	4.8
Q1107	0	9.0	-0.3
Q1108	GND	0.9	-1.1
Q1109	5.3	GND	4.6
Q1110	5.4	GND	4.8
Q1111	5.4	GND	4.8
Q1112	GND	0	0
Q1113	GND	0	0
Q1114	GND	0	0
Q1115	GND	0	0

# U BOARD WAVEFORMS

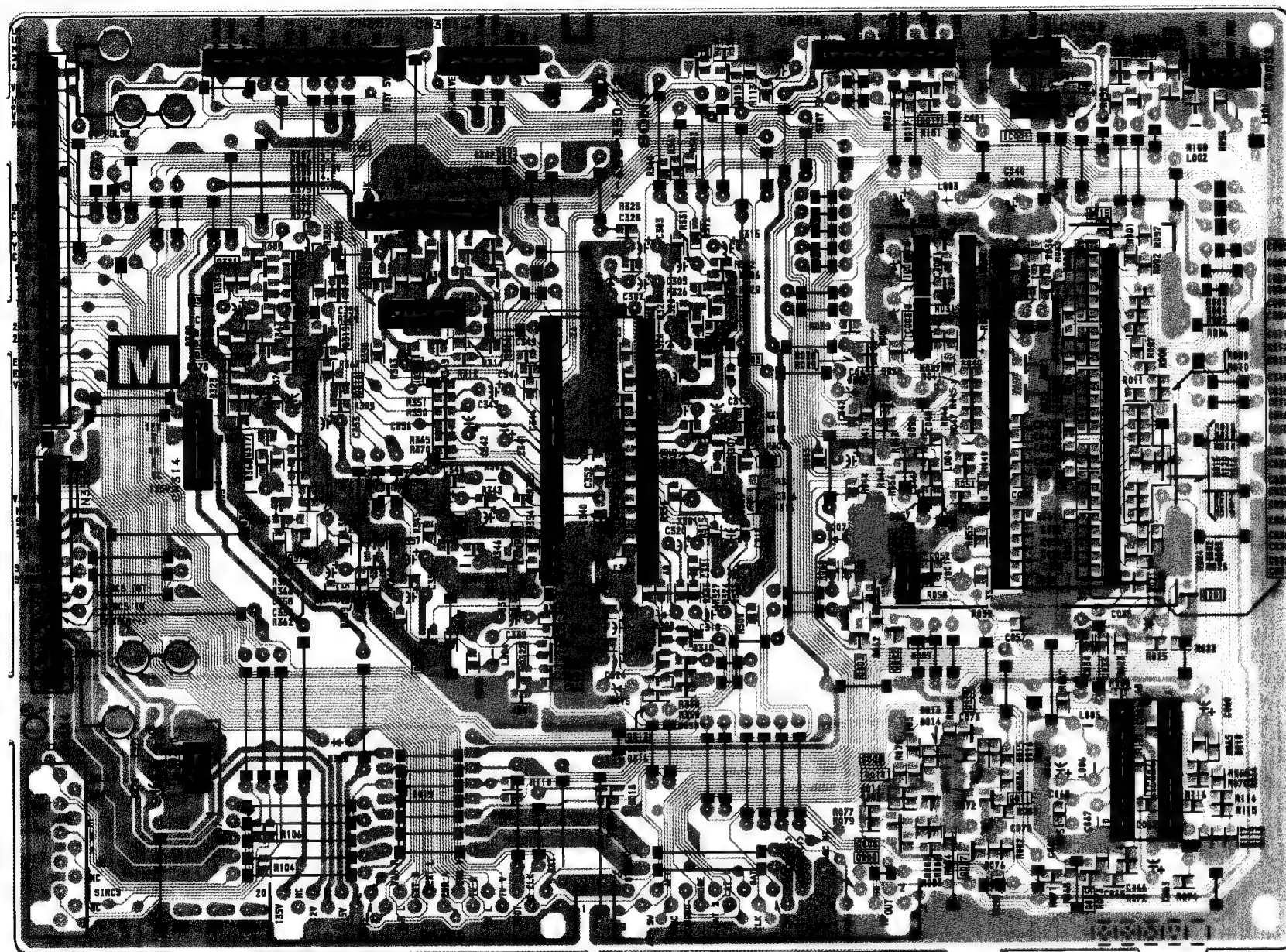


# U BOARD IC1101 CXA1855S





— M BOARD —

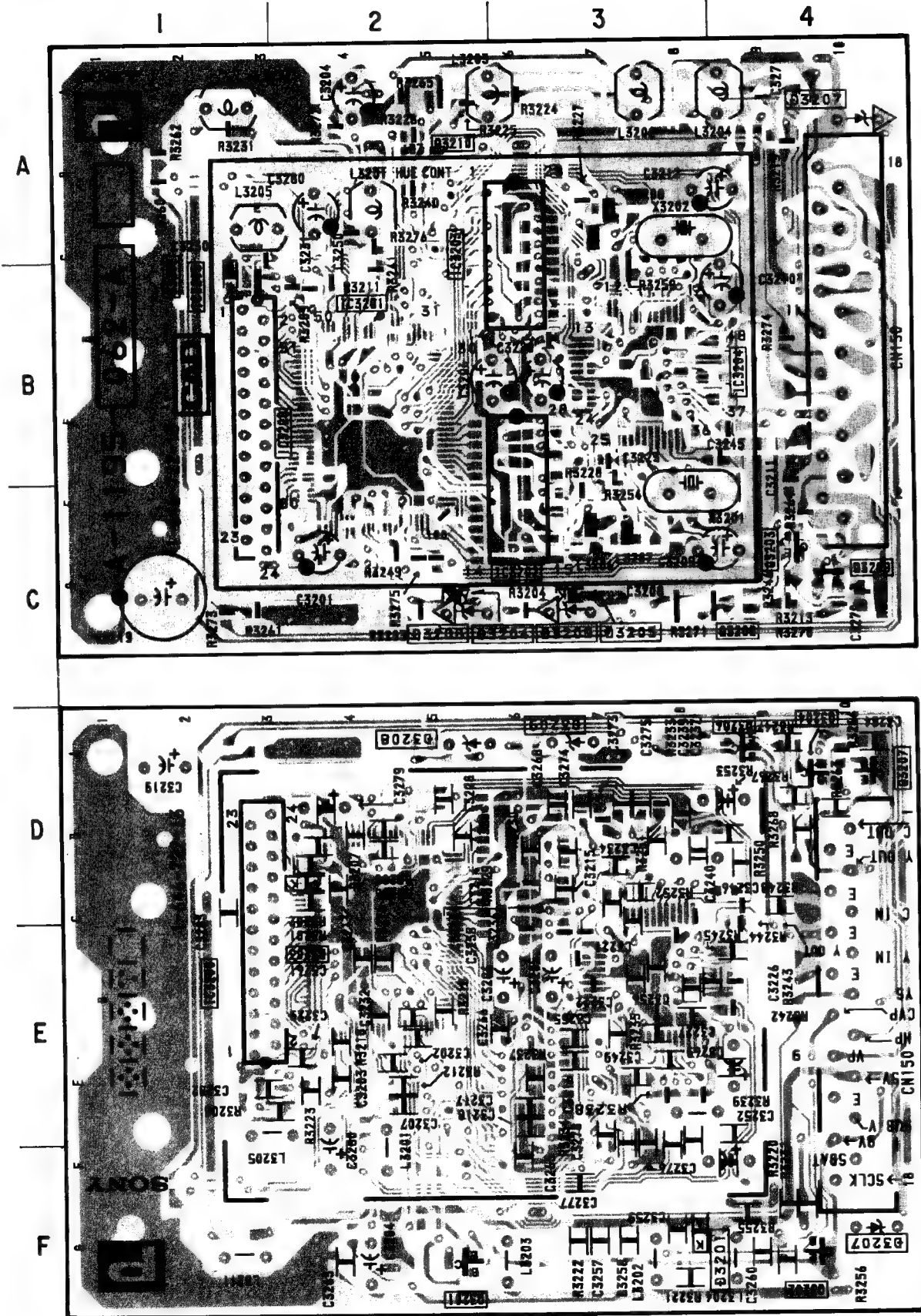



**P** [PICTURE IN PICTURE]

— P BOARD —

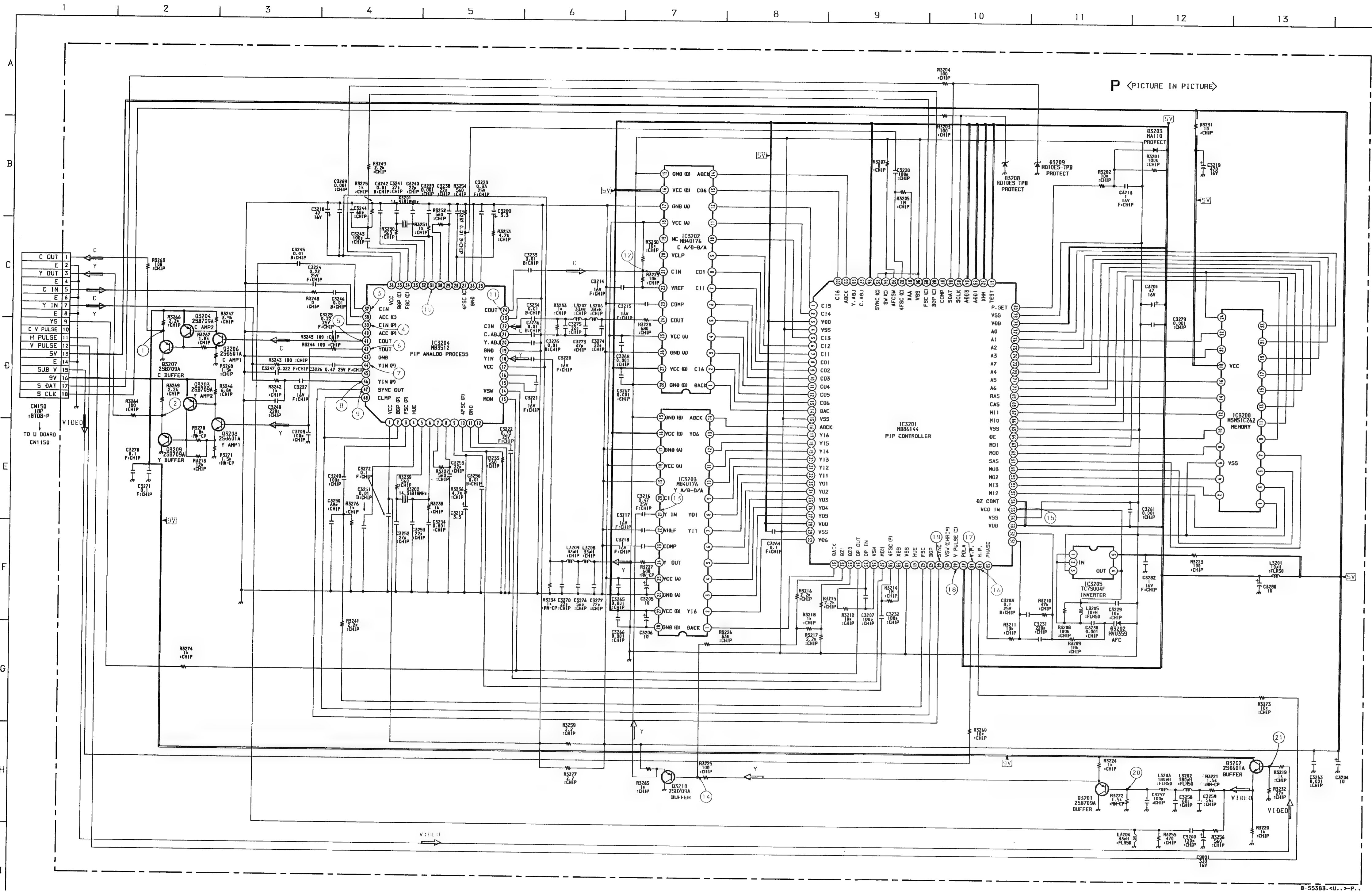
**P BOARD**

IC	
IC3200	E - 1
IC3201	B - 2
IC3202	C - 3
IC3203	B - 3
IC3204	B - 3
IC3205	B - 1
TRANSISTOR	
Q3201	F - 2
Q3202	F - 4
Q3203	C - 4
Q3204	D - 4
Q3206	D - 4
Q3207	D - 4
Q3208	C - 3
Q3209	C - 4
Q3210	A - 2
DIODE	
D3202	B - 1
D3203	D - 2
D3208	D - 2
D3209	D - 3

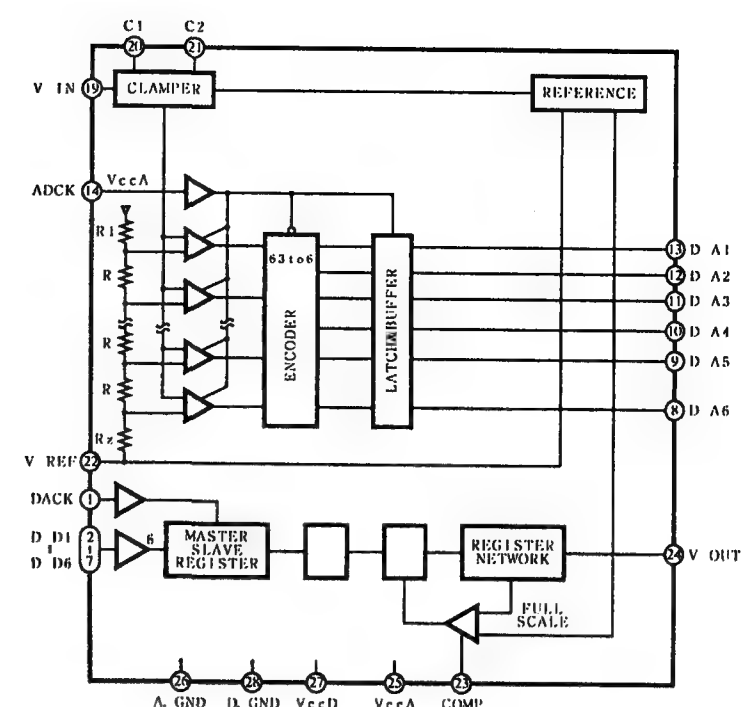


Note :  
•  : Pattern of the rear side.





P BOARD IC3202, IC3203 MB40176



P BOARD IC VOLTAGE LIST

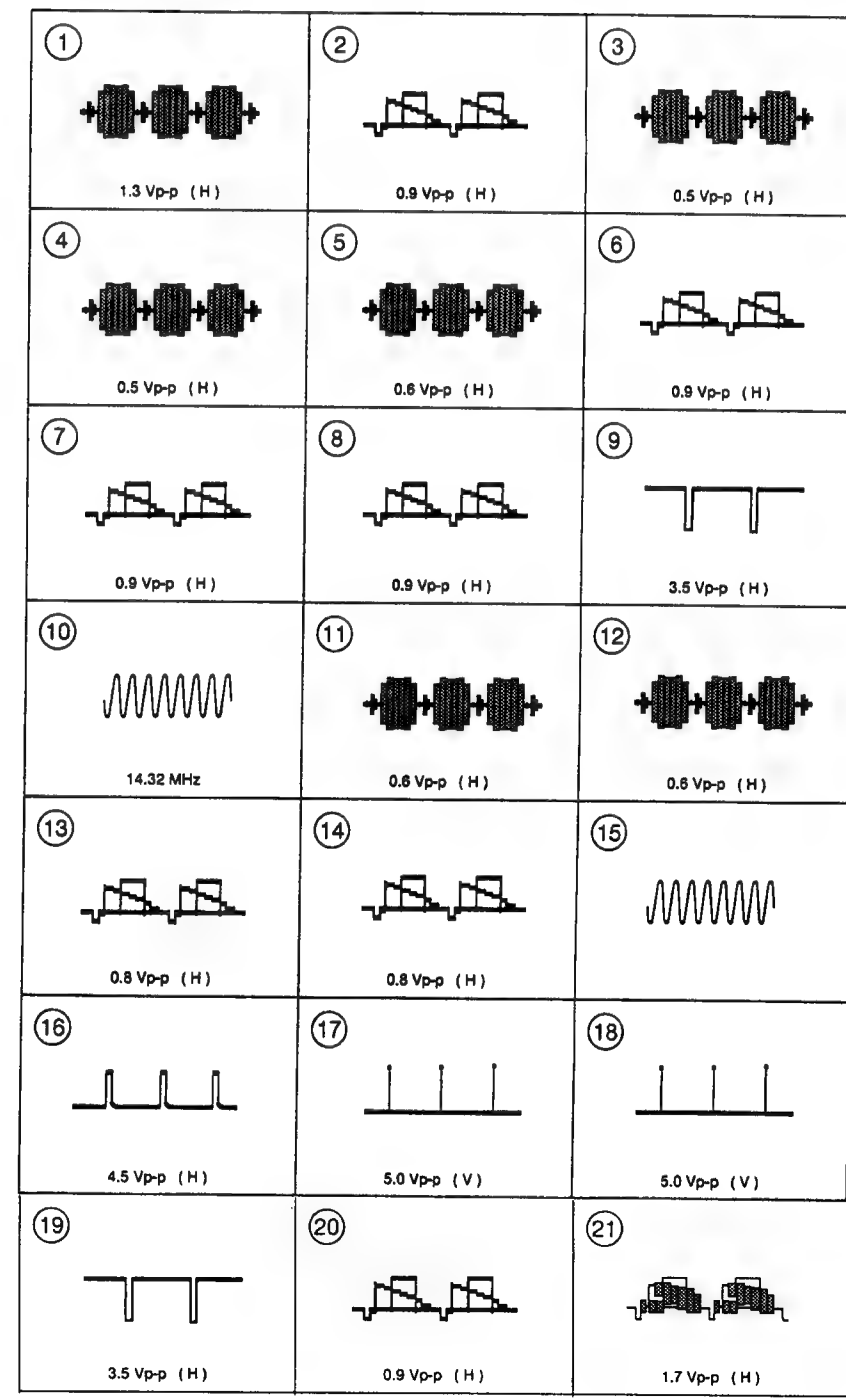
ALL VOLTAGES ARE IN V

IC3200	1 *	6 GND	11 2.3	16 2.1	21 2.5
	2 *	7 1.5	12 2.4	17 2.5	22 2.5
	3 GND	8 *	13 4.0	18 5.0	23 2.3
	4 *	9 2.0	14 3.2	19 2.5	24 4.0
	5 *	10 1.9	15 2.7	20 2.5	
IC3201	1 3.1	21 2.0	41 4.9	61 *	81 5.0
	2 3.1	22 2.3	42 2.5	62 *	82 5.0
	3 5.0	23 5.0	43 4.7	63 *	83 5.0
	4 GND	24 5.0	44 3.7	64 *	84 5.0
	5 0	25 0	45 NC	65 GND	85 4.8
	6 2.9	26 0	46 0	66 2.3	86 4.8
	7 2.8	27 5.0	47 5.0	67 2.4	87 NC
	8 0	28 5.0	48 0.2	68 4.0	88 4.7
	9 0	29 GND	49 0.8	69 3.2	89 2.5
	10 0.2	30 0	50 2.5	70 2.7	90 GND
	11 0.2	31 2.9	51 2.5	71 2.1	91 2.5
	12 0.2	32 2.9	52 3.4	72 2.5	92 2.4
	13 4.9	33 2.2	53 5.0	73 2.5	93 GND
	14 2.6	34 4.9	54 GND	74 2.5	94 GND
	15 GND	35 5.0	55 2.5	75 2.5	95 GND
	16 2.7	36 5.0	56 5.0	76 2.5	96 5.0
	17 0	37 0.2	57 *	77 2.3	97 NC
	18 2.9	38 2.4	58 *	78 5.0	98 NC
	19 0.7	39 2.5	59 *	79 GND	99 2.7
	20 1.9	40 GND	60 *	80 4.9	100 0.8
IC3202	1 2.6	7 0	13 0.8	19 NC	25 5.0
	2 4.9	8 2.8	14 2.7	20 NC	26 GND
	3 0.2	9 2.9	15 GND	21 4.5	27 5.0
	4 0.2	10 0	16 5.0	22 4.1	28 GND
	5 0.2	11 3.1	17 GND	23 2.8	
	6 0	12 3.1	18 5.0	24 4.0	
IC3203	1 2.9	7 5.0	13 0	19 GND	25 5.0
	2 0	8 2.3	14 2.7	20 NC	26 GND
	3 5.0	9 2.0	15 GND	21 4.5	27 5.0
	4 0	10 1.9	16 5.0	22 4.1	28 GND
	5 0	11 0.7	17 GND	23 2.8	
	6 5.0	12 2.9	18 5.0	24 3.8	
IC3204	1 5.0	6 3.2	11 GND	16 2.4	21 3.6
	2 4.7	7 2.6	12 0.2	17 5.0	22 2.9
	3 3.7	8 2.5	13 0.2	18 2.9	23 GND
	4 3.3	9 2.8	14 4.9	19 GND	24 1.8
	5 3.4	10 2.5	15 2.7	20 3.6	25 0
IC3204	26 GND	31 0	36 5.0	41 2.0	46 2.9
	27 2.5	32 3.4	37 1.5	42 1.5	47 3.7
	28 0	33 3.3	38 2.8	43 GND	48 4.7
	29 0	34 3.7	39 1.5	44 2.8	
	30 2.5	35 4.7	40 2.9	45 2.7	
IC3205	1 2.5	2 2.5	3 GND	4 2.5	5 4.9

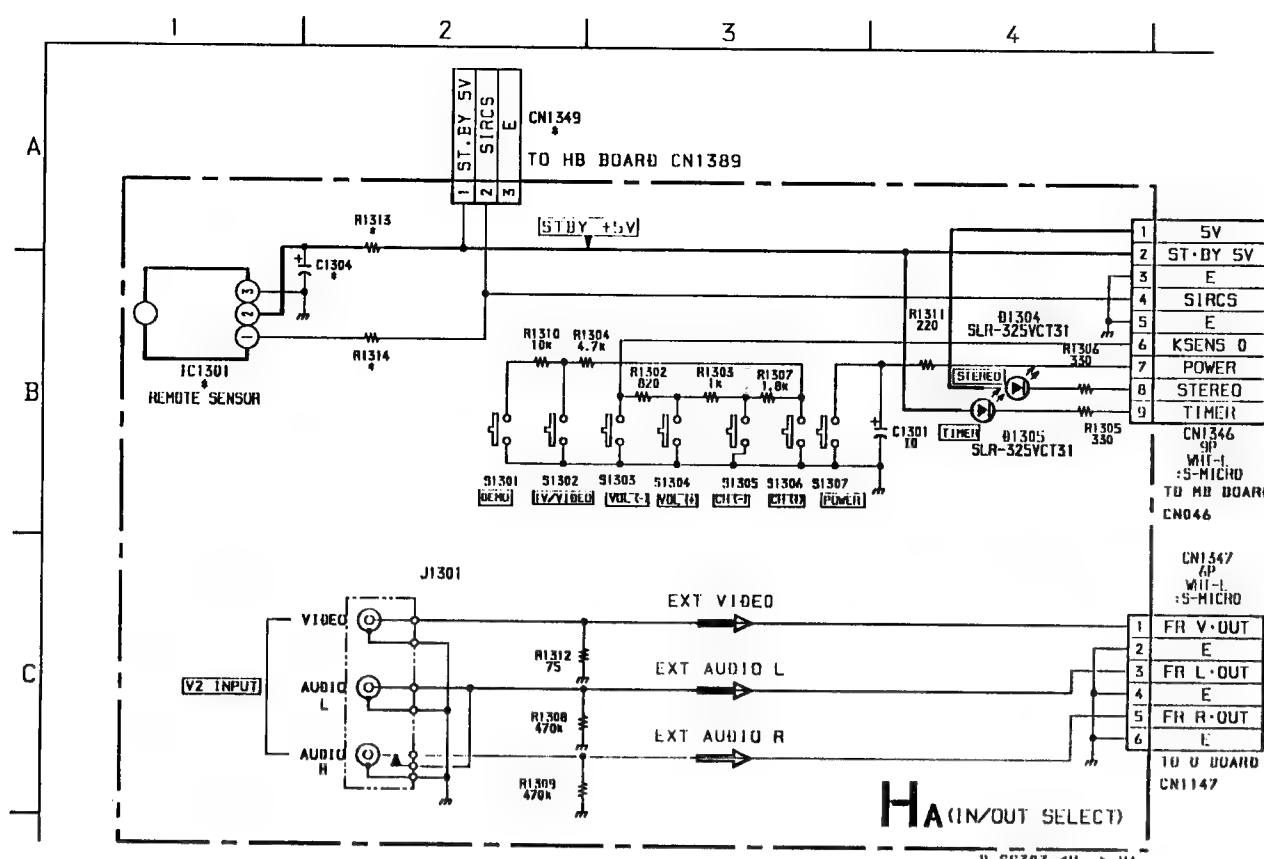
P BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q3201	2.6	GND	1.9
Q3202	3.8	9.0	4.4
Q3203	9.0	1.6	8.5
Q3204	9.0	2.6	8.5
Q3206	1.5	8.5	1.9
Q3207	3.3	GND	2.6
Q3208	0.9	8.5	1.5
Q3209	2.3	GND	1.6
Q3210	3.2	GND	2.6

P BOARD WAVEFORMS







# HA BOARD \* MARK

Ref.No.	KP-46V28 (U/C)	KP-53V25 (US)	KP-61V25 (US)
C1304	—	—	10 50V
CN1349	○	○	—
IC1301	—	—	SBX1780-51
R1313	—	—	JW (5.0)
R1314	—	—	100

○ : TO BE MOUNT  
— : NOT MOUNT

# HA BOARD IC VOLTAGE LIST

IC1301	1	2	3	4
--------	---	---	---	---

ALL VOLTAGES ARE IN V

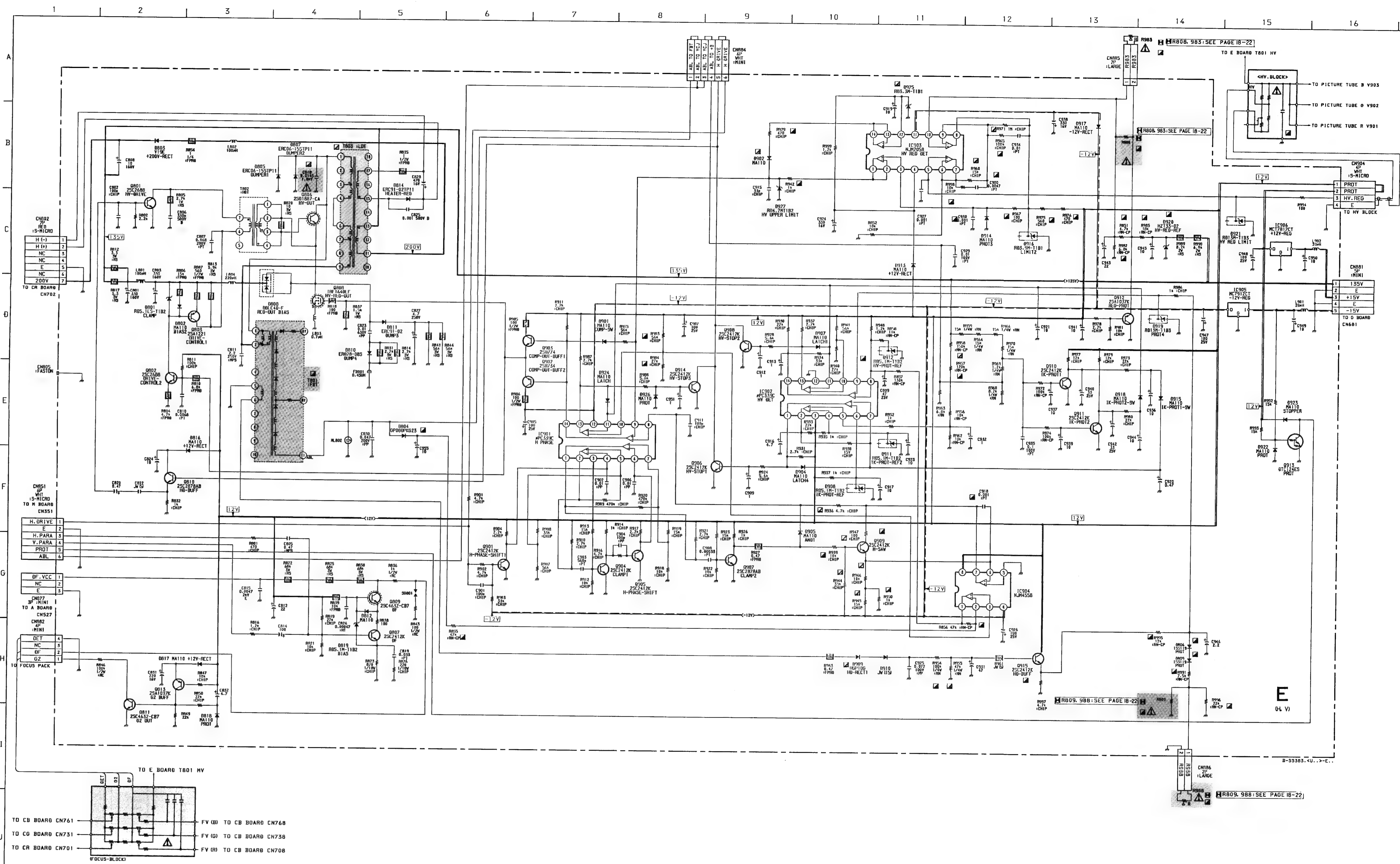
# E BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V

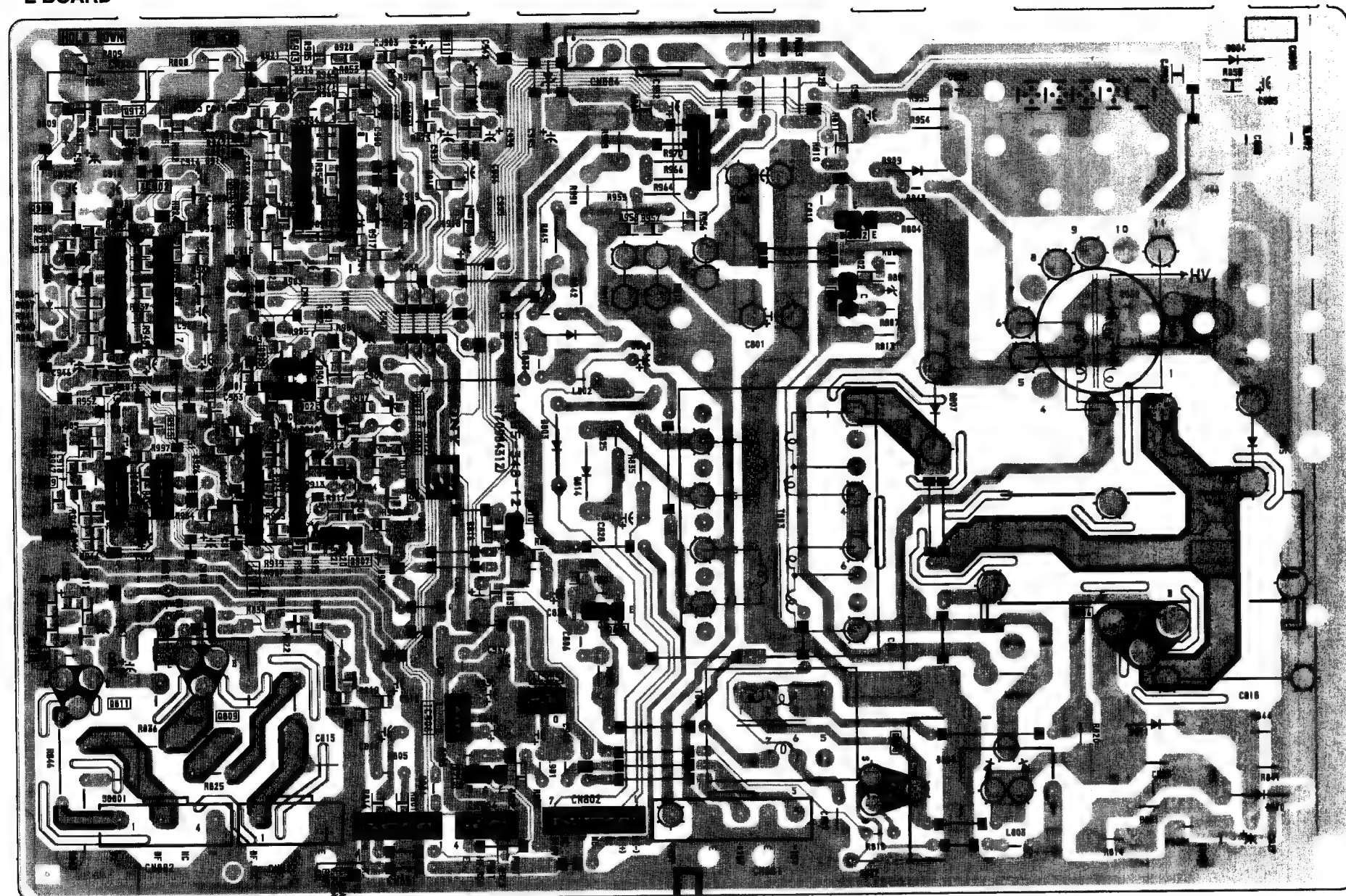
IC901	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC902	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC903	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC904	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC905	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC906	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

# E BOARD TRANSISTOR VOLTAGE LIST

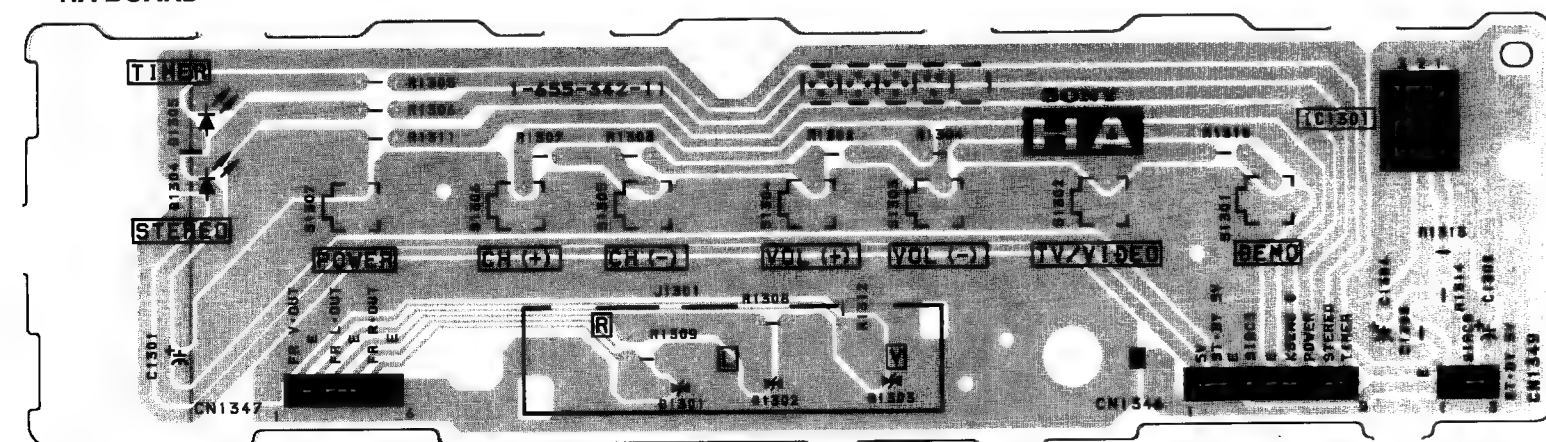
Q801	E	C	B
Q802	1	2	3
Q803	1	2	3
Q804	1	2	3
Q805	1	2	3
Q806	1	2	3
Q807	1	2	3
Q808	1	2	3
Q809	1	2	3
Q810	1	2	3
Q811	1	2	3
Q812	1	2	3
Q813	1	2	3
Q814	1	2	3
Q815	1	2	3
Q816	1	2	3
Q817	1	2	3
Q818	1	2	3
Q819	1	2	3
Q820	1	2	3
Q821	1	2	3
Q822	1	2	3
Q823	1	2	3
Q824	1	2	3
Q825	1	2	3
Q826	1	2	3
Q827	1	2	3
Q828	1	2	3
Q829	1	2	3
Q830	1	2	3
Q831	1	2	3
Q832	1	2	3
Q833	1	2	3
Q834	1	2	3
Q835	1	2	3
Q836	1	2	3
Q837	1	2	3
Q838	1	2	3
Q839	1	2	3
Q840	1	2	3
Q841	1	2	3
Q842	1	2	3
Q843	1	2	3
Q844	1	2	3
Q845	1	2	3
Q846	1	2	3
Q847	1	2	3
Q848	1	2	3
Q849	1	2	3
Q850	1	2	3
Q851	1	2	3
Q852	1	2	3
Q853	1	2	3
Q854	1	2	3
Q855	1	2	3
Q856	1	2	3
Q857	1	2	3
Q858	1	2	3
Q859	1	2	3
Q860	1	2	3
Q861	1	2	3
Q862	1	2	3
Q863	1	2	3
Q864	1	2	3
Q865	1	2	3
Q866	1	2	3
Q867	1	2	3
Q868	1	2	3
Q869	1	2	3
Q870	1	2	3
Q871	1	2	3
Q872	1	2	3
Q873	1	2	3
Q874	1	2	3
Q875	1	2	3
Q876	1	2	3
Q877	1	2	3
Q878	1	2	3
Q879	1	2	3
Q880	1	2	3
Q881	1	2	3
Q882	1	2	3
Q883	1	2	3
Q884	1	2	3
Q885	1	2	3
Q886	1	2	3
Q887	1	2	3
Q888	1	2	3
Q889	1	2	3
Q890	1	2	3
Q891	1	2	3
Q892	1	2	3
Q893	1	2	3
Q894	1	2	3
Q895	1	2	3
Q896	1	2	3
Q897	1	2	3
Q898	1	2	3
Q899	1	2	3
Q900	1	2	3
Q901	1	2	3
Q902	1	2	3
Q903	1	2	3
Q904	1	2	3
Q905	1	2	3
Q906	1	2	3
Q907	1	2	3
Q908	1	2	3
Q909	1	2	3
Q910	1	2	3
Q911	1	2	3
Q912	1	2	3
Q913	1	2	3
Q914	1	2	3
Q915	1	2	3
Q916	1	2	3
Q917	1	2	3
Q918	1	2	3
Q919	1	2	3
Q920	1	2	3
Q921	1	2	3
Q922	1	2	3
Q923	1	2	3
Q924	1	2	3
Q925	1	2	3
Q926	1	2	3
Q927	1	2	3
Q928	1	2	3
Q929	1	2	3
Q930	1	2	3
Q931	1	2	3
Q932	1	2	3
Q933	1	2	3
Q934	1	2	3
Q935	1	2	3
Q936	1	2	3
Q937	1	2	3
Q938	1	2	3
Q939	1	2	3
Q940	1	2	3
Q941	1	2	3
Q942	1	2	3
Q943	1	2	3
Q944	1	2	3
Q945	1	2	3
Q946	1	2	3
Q947	1	2	3
Q948	1	2	3
Q949	1	2	3
Q950	1	2	3
Q951	1	2	3
Q952	1	2	3
Q953	1	2	3
Q954	1	2	3
Q955	1	2	3
Q956	1	2	3
Q957	1	2	3
Q958	1	2	3
Q959	1	2	3
Q960	1	2	3
Q961	1	2	3
Q962	1	2	3
Q963	1	2	3
Q964	1	2	3
Q965	1	2	3
Q966	1	2	3
Q967	1	2	3
Q968	1	2	3
Q969	1	2	3
Q970	1	2	3
Q971	1	2	3
Q972	1	2	3
Q973	1	2	3
Q974	1	2	3
Q975	1	2	3
Q976	1	2	3
Q977	1	2	3
Q978	1	2	3
Q979	1	2	3
Q980	1	2	3
Q981	1	2	3
Q982	1	2	3
Q983	1	2	3
Q984	1	2	3
Q985	1	2	3
Q986	1	2	3
Q987	1	2	3
Q988	1	2	3
Q989	1	2	3
Q990	1	2	3
Q991	1	2	3
Q992	1	2	3
Q993	1	2	3
Q994	1	2	3
Q995	1	2	3
Q996	1	2	3
Q997	1	2	3
Q998	1	2	3
Q999	1	2	3
Q1000	1	2	3




— E BOARD —



— HA BOARD —



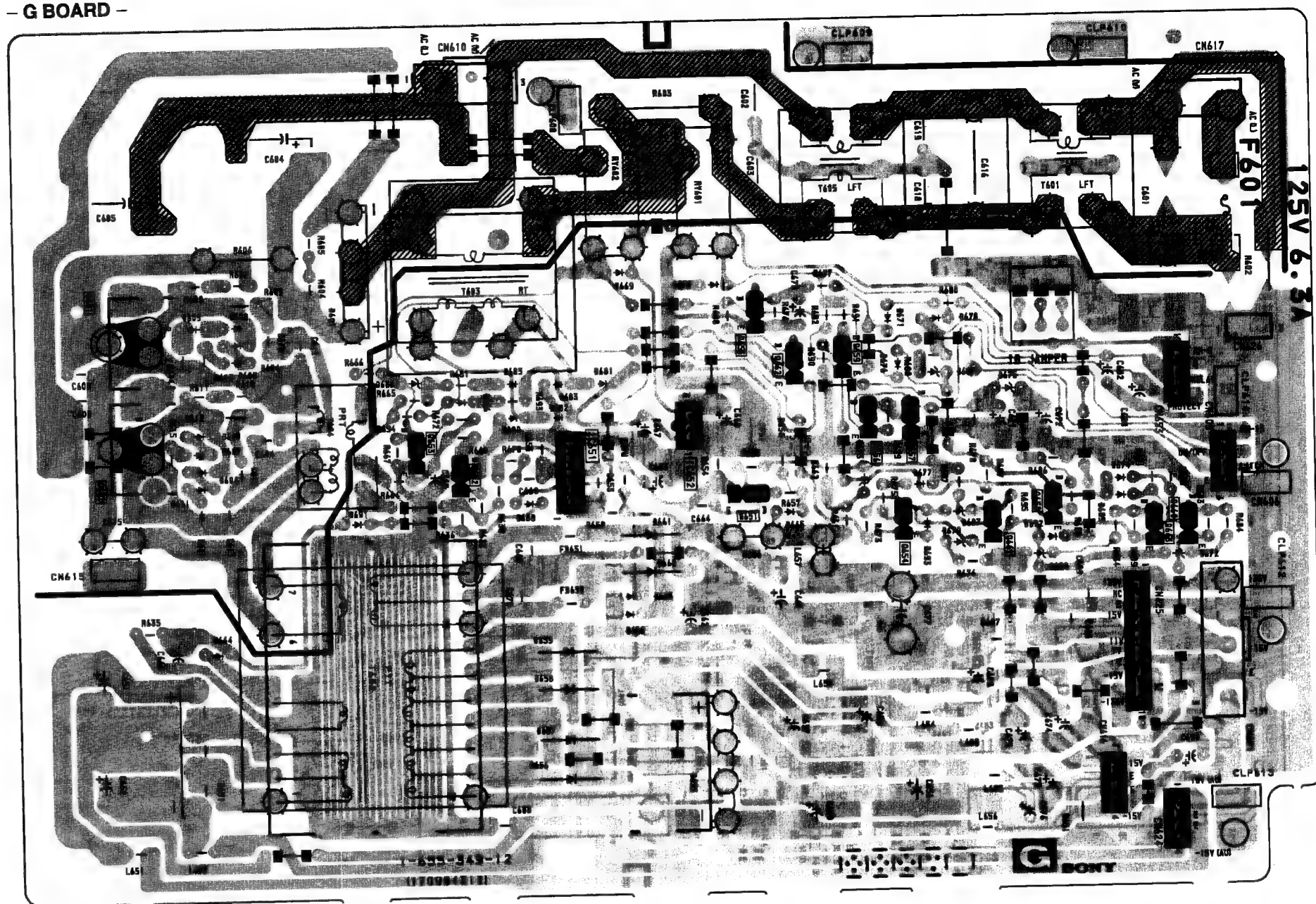


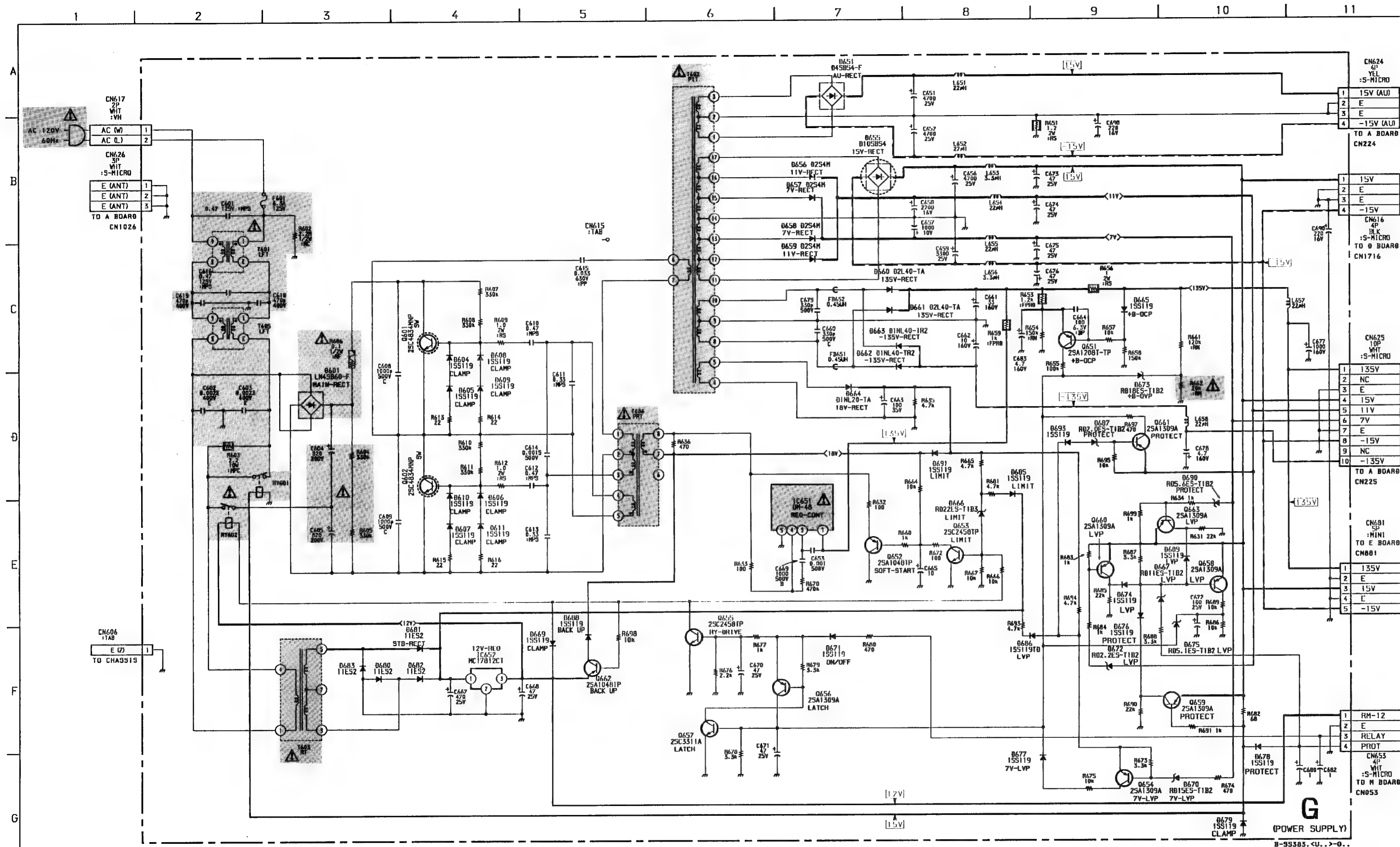
**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



**G** [POWER SUPPLY]

— G BOARD —





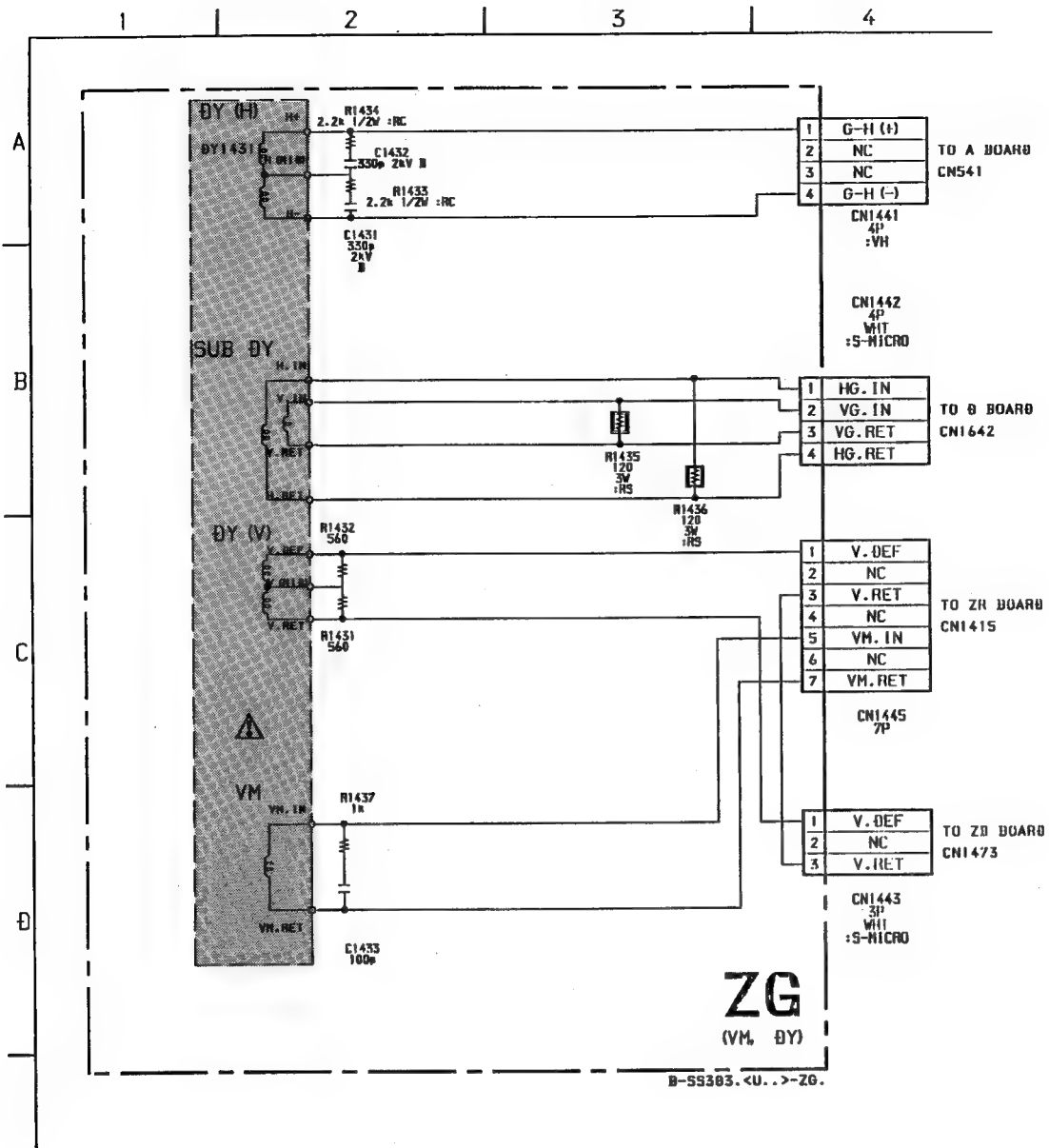
# G BOARD IC VOLTAGE LIST ALL VOLTAGES ARE IN V

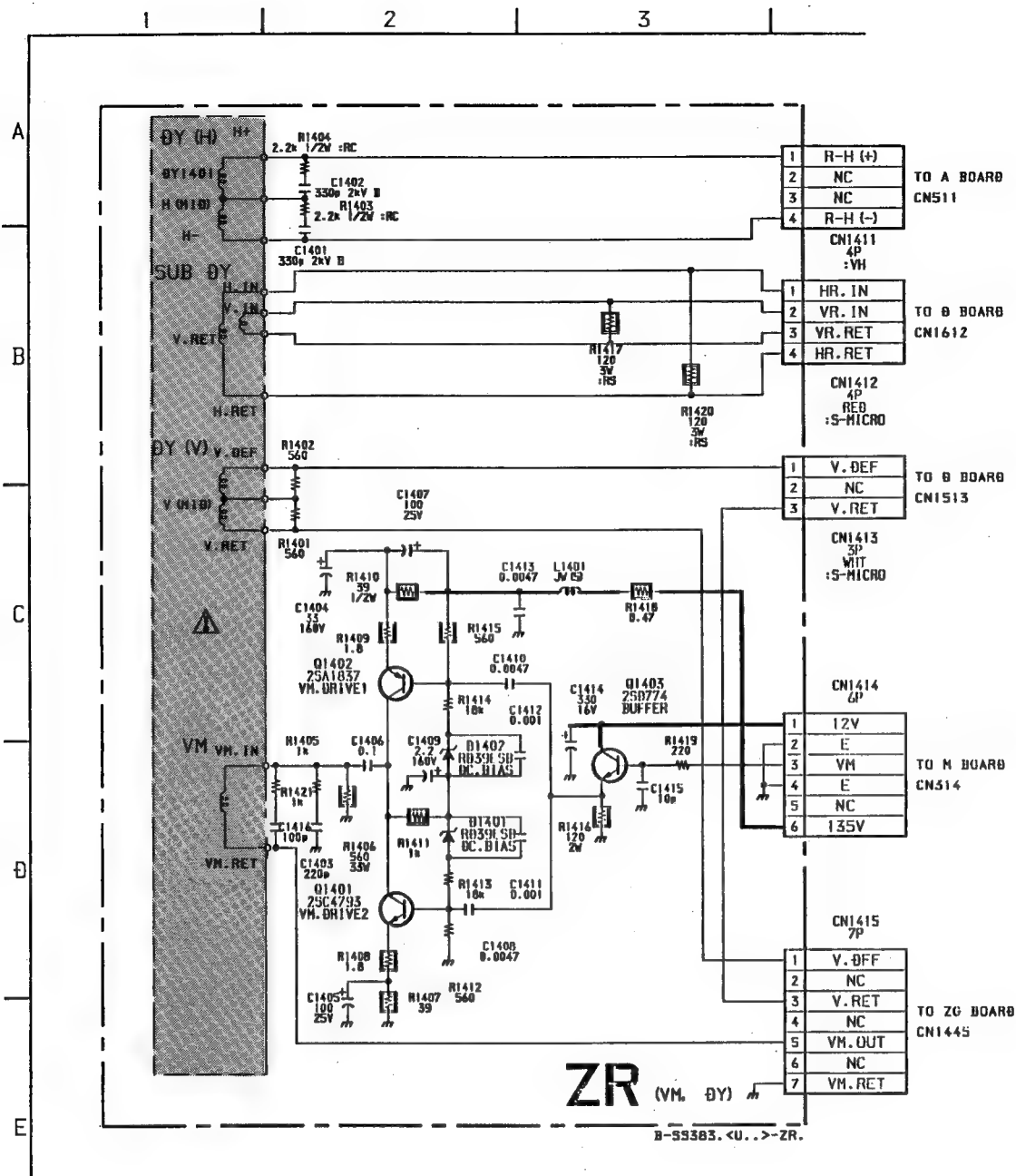
IC651	1 135.4	3 2.6	4 8.9	5 GND
IC652	1 22.0	2 GND	3 12.0	

## G BOARD TRANSISTOR VOLTAGE LIST

	E	C	D
Q601	-1.8	0	-3.9
Q602	-118.5	-1.8	-120.3
Q651	135.5	0.2	135.4
Q652	13.0	GND	15.1
Q653	GND	15.1	0
Q654	15.7	-2.0	15.7
Q655	GND	0.2	0.8
Q656	2.7	0.2	2.7
Q657	GND	2.7	0.2
Q658	15.0	8.2	14.8
Q659	15.0	15.3	14.6
Q660	15.0	15.3	14.6
Q661	11.0	0.2	11.5
Q662	12.0	12.1	11.4
Q663	15.0	15.3	14.6







### ZR BOARD TRANSISTOR VOLTAGE LIST

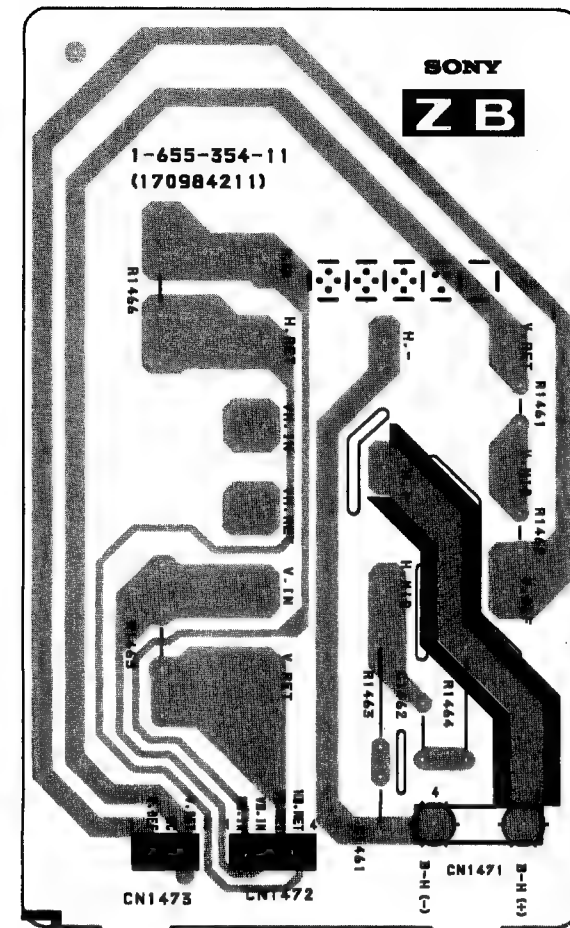
	E	C	B
Q1401	0	-0.5	0
Q1402	-1.0	-0.5	-0.9
Q1403	4.8	12.0	5.4

ALL VOLTAGES ARE IN V

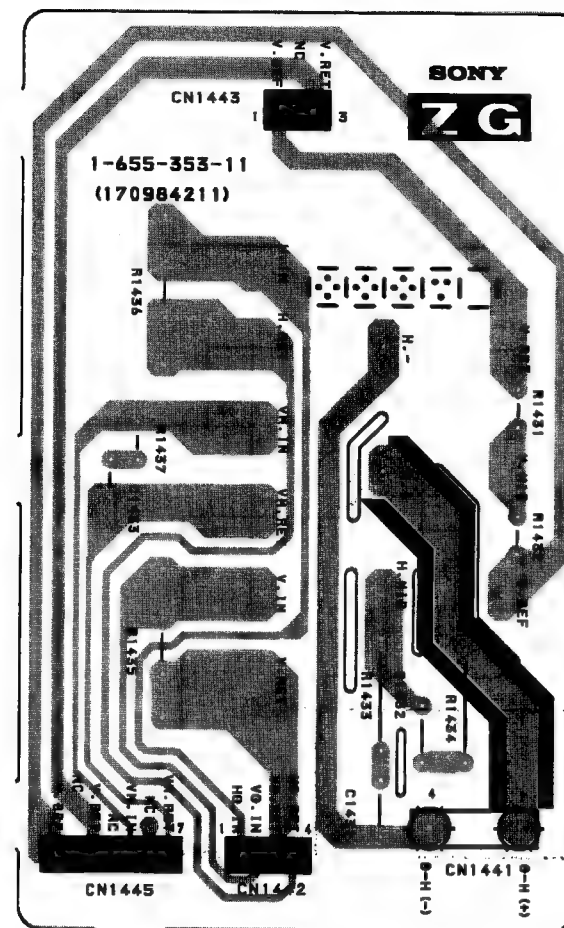


**ZB**<sub>[VM, DY]</sub> **ZG**<sub>[VM, DY]</sub> **ZR**<sub>[VM, DY]</sub> **HB**<sub>[SIRCS RECEIVER, INDICATOR]</sub>

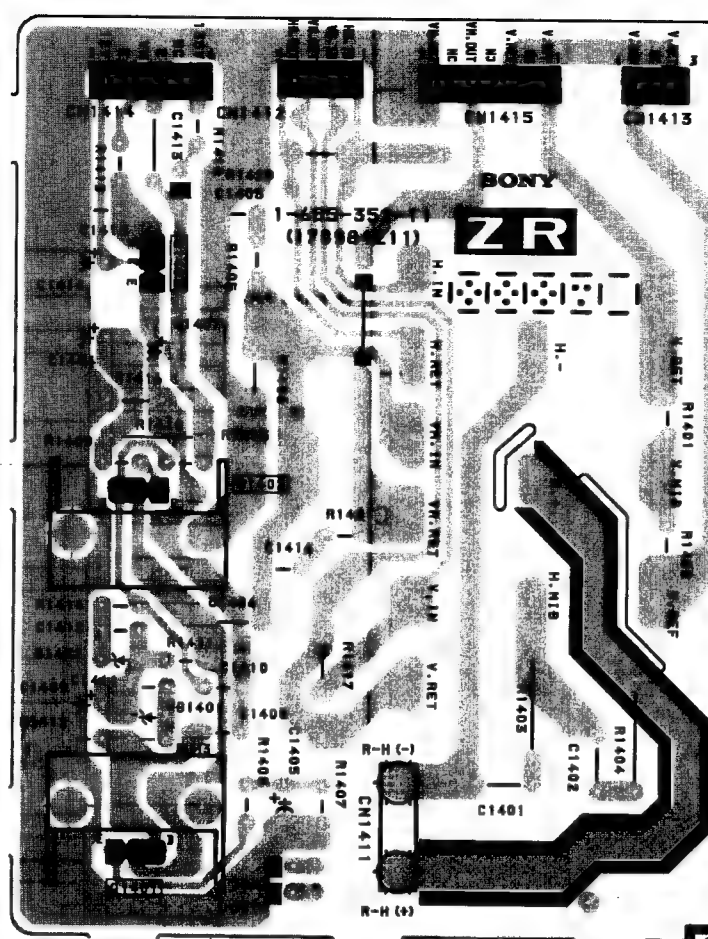
**- ZB BOARD -**



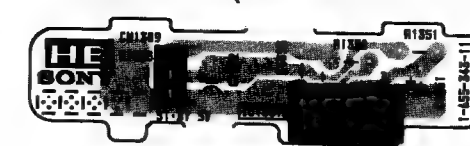
**- ZG BOARD -**



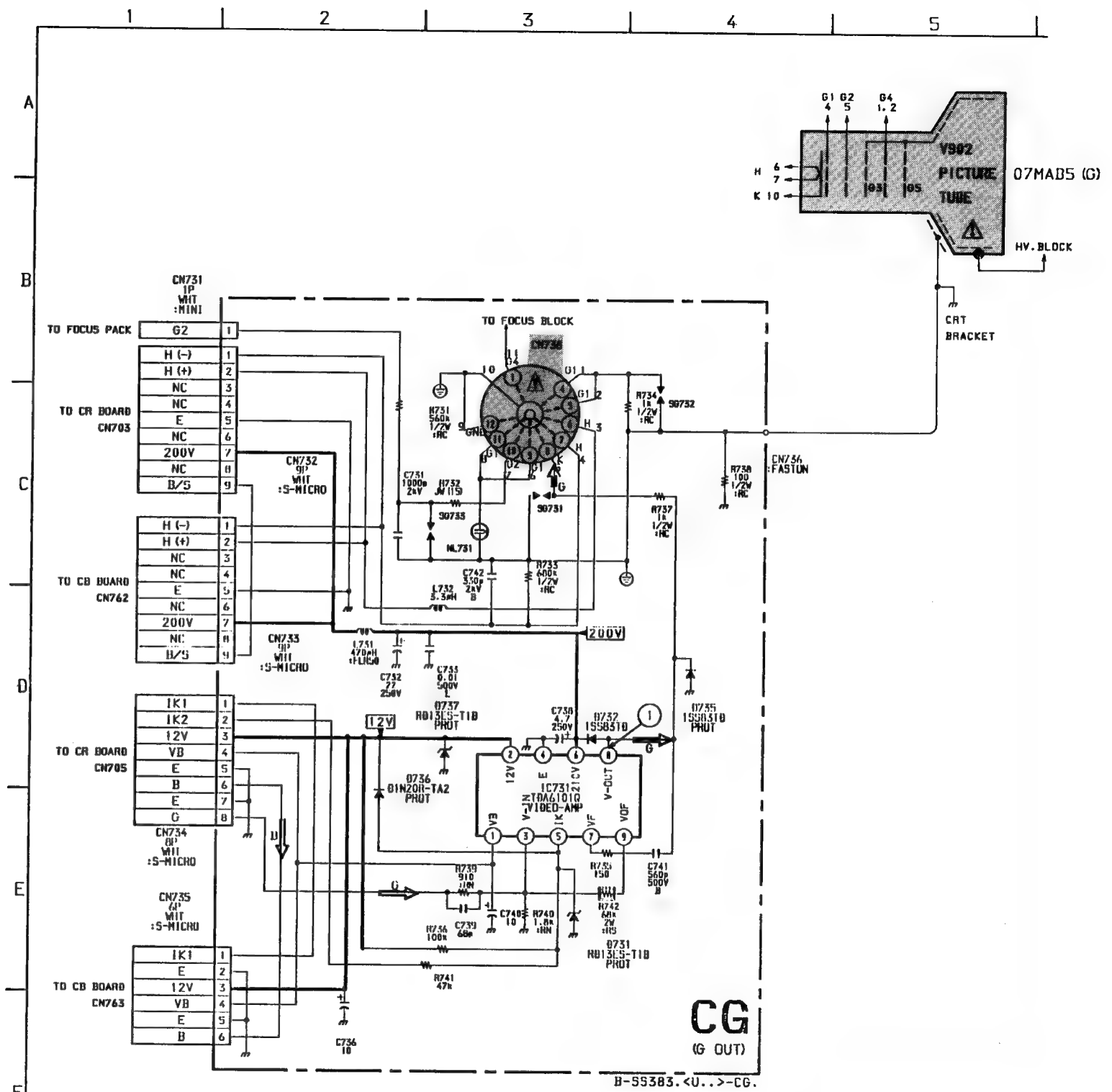
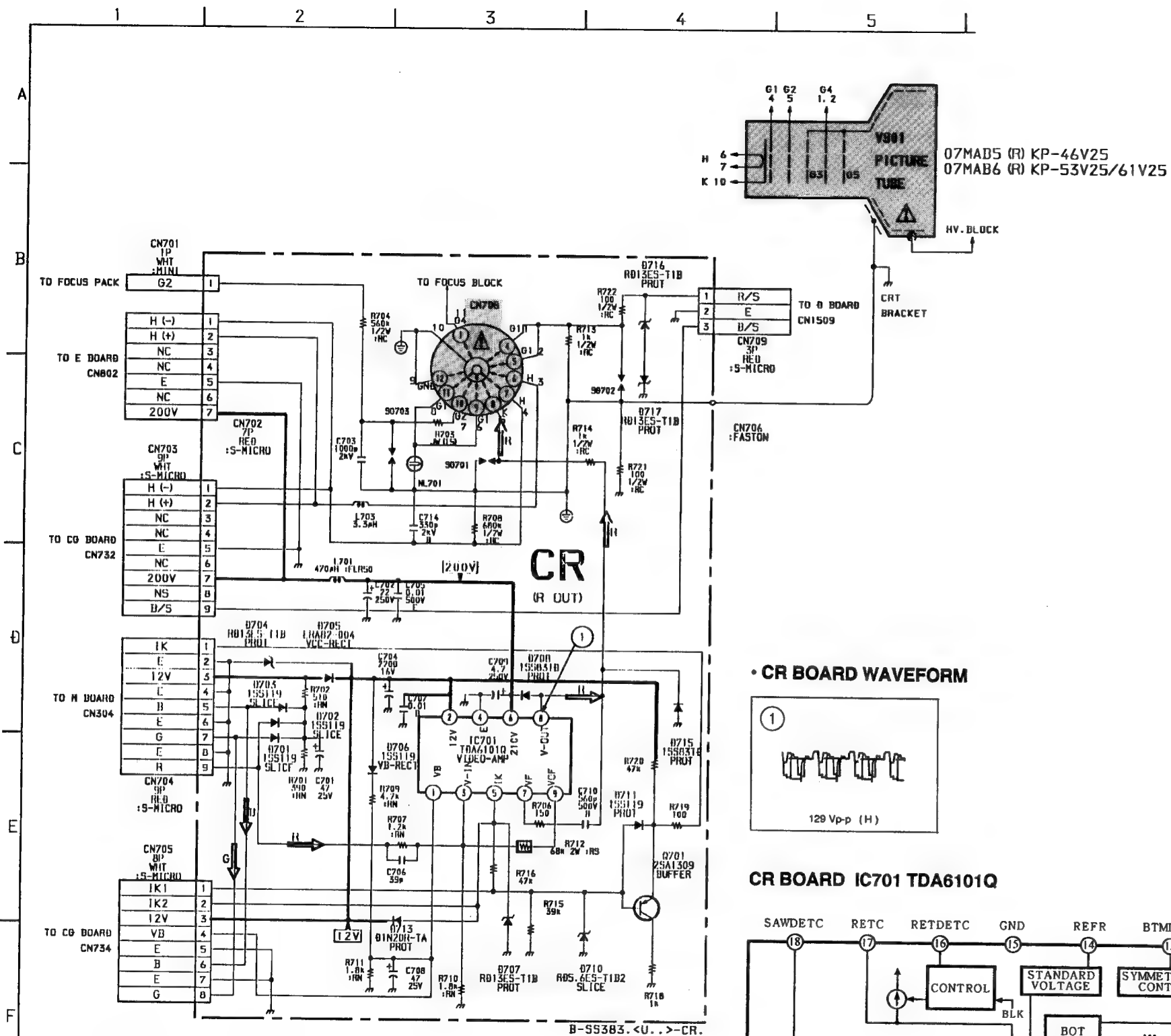
**- ZR BOARD -**



– **HB BOARD** – (KP-46V25/53V25 only)



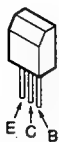




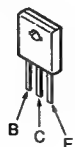




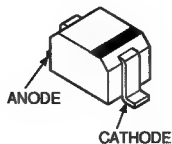
2SA1221-L  
2SB733-34  
2SD774-34



2SC4834M



HMJ359TRF  
MA110  
1T363



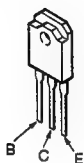
D1N20R

ERA85-009  
RD10ESB2  
RD11ESB2  
RD13ESB2  
RD15ESB2  
RD18ESB2  
RD2.0ESB2  
RD2.2ESB2  
RD22ESB1  
RD22ESB3  
RD24ESB  
RD3.3ESB2  
RD3.6ESB1  
RD3.9ESB2  
RD33ESB1  
RD39ESB2  
RD5.1ESB1  
RD5.1ESB2  
RD5.6ESB1  
RD5.6ESB2  
RD8.2ESB2  
RD9.1ESL  
11ES2  
1SS119-25

D8LC40



2SA1492M-OPY

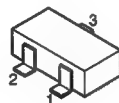
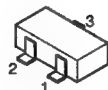


2SD2348LBS0NY

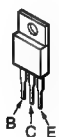


RD13M-B3  
RD3.3M-B1  
RD3.9M-B1  
RD4.7M-B2  
RD5.1M-B2  
RD5.6M-B2

DAN202K



2SA1837  
2SC4793

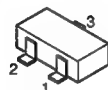


SLR-325VCT31

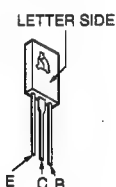
D10SBS4F  
D4SBS-F  
LN4SB60



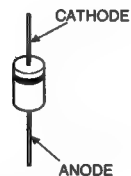
DAP202K



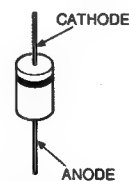
2SB649A-C  
2SC2688-LK



ERC06-15S  
ERC91-02  
RU-1C



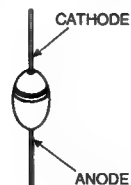
D1NL20  
D1NL40-TR2  
D2L40-TA  
EL1Z  
GP08D  
RGP02-20EL-6394  
1SS83



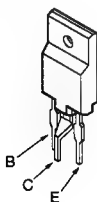
2SC2878-AB



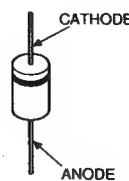
ERC38-06  
V09G



2SC4632LS-CB7  
2SD1887-CA



D2S4MF



## SECTION 5 EXPLODED VIEWS

### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

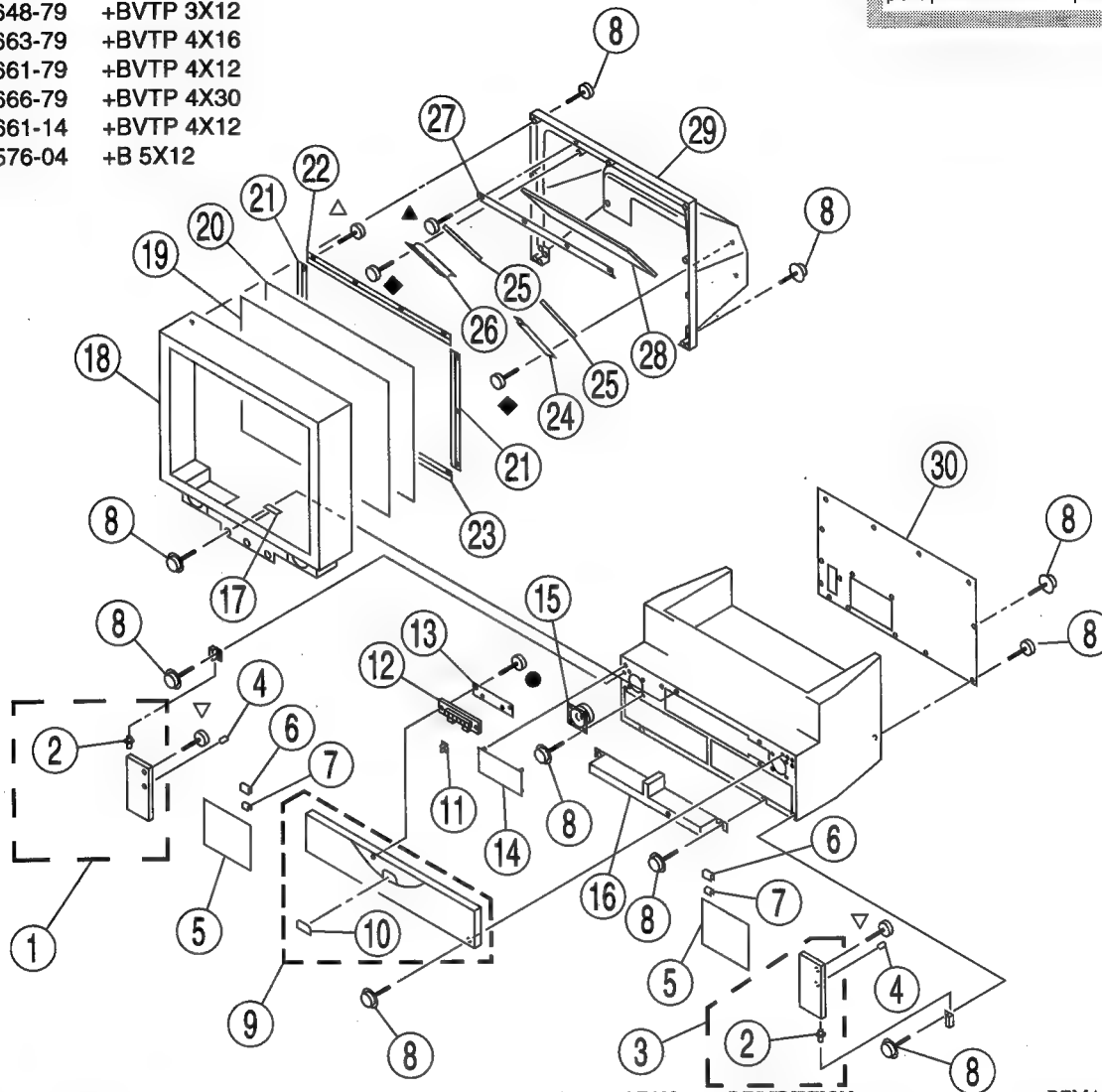
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

### 5-1. COVER (KP-46V25/53V25)

- : 7-685-648-79 +BVTP 3X12
- : 7-685-663-79 +BVTP 4X16
- ▲ : 7-685-661-79 +BVTP 4X12
- ◆ : 7-685-666-79 +BVTP 4X30
- △ : 7-685-661-14 +BVTP 4X12
- ▽ : 7-682-576-04 +B 5X12

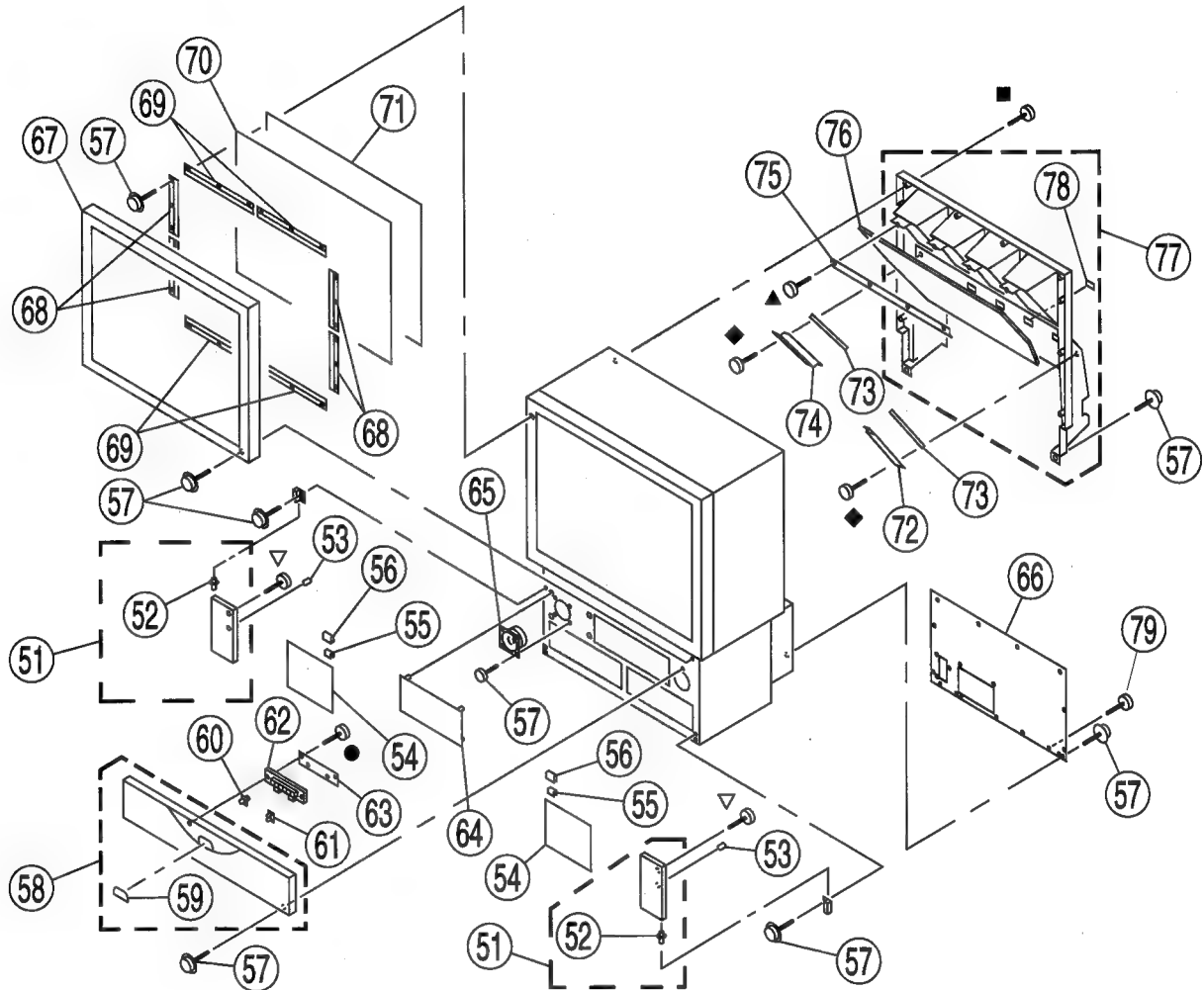


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4032-707-1	DOOR (L) ASSY, RACK	(KP-53V25)	2	4-037-360-11	PLATE (L), DIFFUSION	(KP-46V25)
2	4-048-634-01	SHAFT		20	4-048-205-11	PLATE (F), DUFFUSION	(KP-46V25)
3	X-4032-708-1	DOOR (R) ASSY, RACK			4-036-469-01	PLATE (F), DIFFUSION	(KP-53V25)
4	4-036-901-01	SCREW		21	* 4-048-152-01	HOLDER (S), SCREEN	(KP-46V25)
5	4-048-790-01	GLASS (53), DOOR			* 4-048-152-11	HOLDER (S), SCREEN	(KP-53V25)
6	4-038-384-01	CATCHER, MAGNET	10	22	* 4-048-159-01	HOLDER (L), SCREEN	(KP-46V25)
7	4-038-385-01	SPACER			* 4-048-159-11	HOLDER (L), SCREEN	(KP-53V25)
8	4-041-164-11	SCREW (4X20), TAPPING		23	* 4-048-159-21	HOLDER (L), SCREEN	(KP-46V25)
9	X-4032-613-1	PANEL ASSY, CONTROL			* 4-048-159-31	HOLDER (L), SCREEN	(KP-53V25)
10	4-048-000-01	DOOR, CONTROL		24	* 4-049-096-01	HOLDER (RIGHT), SIDE	(KP-46V25)
11	4-047-998-01	GUIDE, LIGHT, LED	(KP-46V25)	25	* 4-049-098-01	CUSHION	
12	4-048-001-01	BUTTON, MULTI		26	* 4-049-097-01	HOLDER (LEFT), SIDE	
13	* A-1372-112-A	HA BOARD, COMPLETE		27	* 4-037-351-01	HOLDER, MIRROR	
14	4-048-335-01	GRILLE, SPEAKER		28	* 4-048-741-01	MIRROR, REFLECTION	
15	1-504-785-11	SPEAKER (10CM)	(KP-53V25)	29	* 4-048-639-01	COVER, MIRROR	(KP-46V25)
16	4-048-247-01	PANEL, FRONT ORNAMENT			* 4-048-640-01	COVER, MIRROR	(KP-53V25)
17	* A-1372-111-A	HB BOARD, COMPLETE		30	* 4-048-794-01	PLATE (46), REAR	(KP-46V25)
18	X-4032-998-1	BEZNET ASSY			* 4-048-793-01	PLATE (53), REAR	(KP-53V25)
19	X-4032-999-1	BEZNET ASSY					
	4-036-466-01	PLATE (L), DIFFUSION	(KP-53V25)				



## 5-2. COVER (KP-61V25)

- : 7-685-648-79 +BVTP 3X12
- : 7-685-663-79 +BVTP 4X16
- ▲ : 7-685-661-79 +BVTP 4X12
- ◆ : 7-685-666-79 +BVTP 4X30
- ▽ : 7-682-576-04 +B 5X12



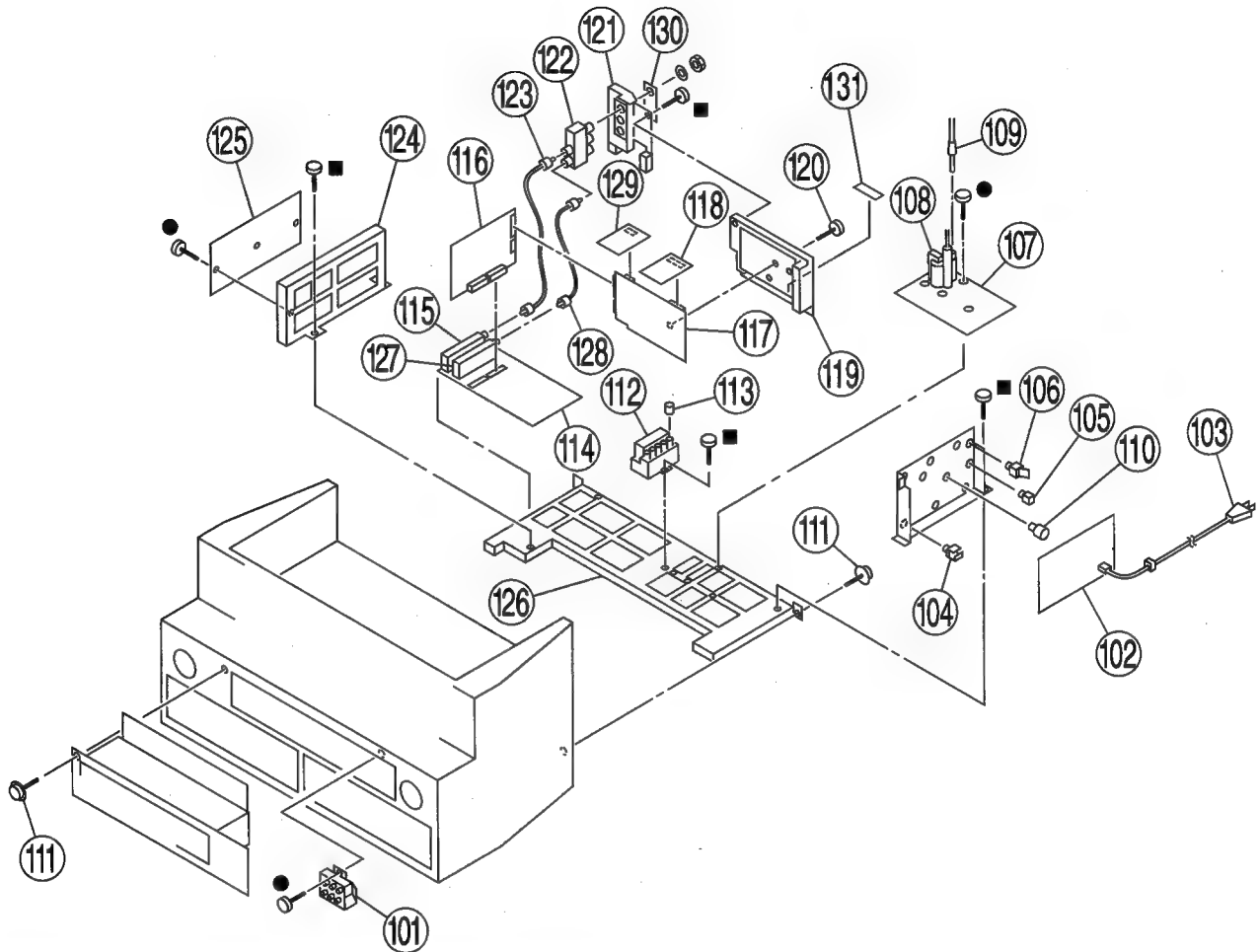
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4032-709-1	DOOR ASSY, RACK		65	1-504-785-11	SPEAKER (10CM)	
52	4-048-634-01	SHAFT	52	66	*4-049-034-01	PLATE, REAR	
53	4-036-901-01	SCREW		67	X-4032-762-1	FRAME ASSY, SCREEN	
54	4-048-791-01	GLASS (61), DOOR		68	*4-040-122-01	HOLDER (S), SCREEN	
55	4-038-385-01	SPACER		69	*4-040-120-01	HOLDER (L), SCREEN	
56	4-038-384-01	CATCHER, MAGNET		70	4-040-124-11	PLATE (L), DIFFUSION	
57	4-041-164-11	SCREW (4X20), TAPPING		71	4-040-123-11	PLATE (F), DIFFUSION	
58	X-4032-612-1	PANEL ASSY, CONTROL	59	72	*4-049-096-01	HOLDER (RIGHT), SIDE	
59	4-048-000-01	DOOR, CONTROL		73	*4-049-098-01	CUSHION	
60	4-047-999-01	FILTER, REMOTE		74	*4-049-097-01	HOLDER (LEFT), SIDE	
61	4-047-998-01	GUIDE, LIGHT, LED		75	*4-037-351-01	HOLDER, MIRROR	
62	4-048-001-01	BUTTON, MULTI		76	4-050-128-01	MIRROR (61")	
63	*A-1372-099-A	HA BOARD, COMPLETE		77	*X-4032-620-1	COVER ASSY, MIRROR	
64	4-048-335-01	GRILLE, SPEAKER		78	4-048-150-01	CAP, HOLE	
				79	4-041-164-11	SCREW (4X20), TAPPING	78

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 5-3. CHASSIS

- : 7-685-648-79 +BVTP 3X12  
■ : 7-685-663-79 +BVTP 4X16



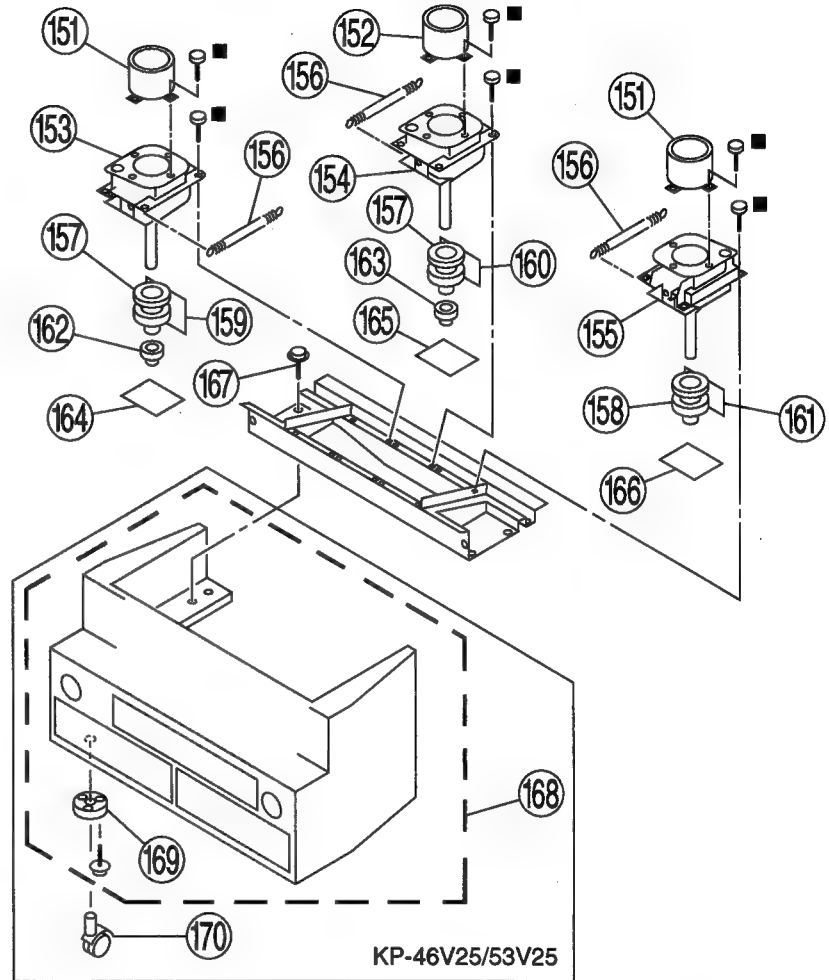
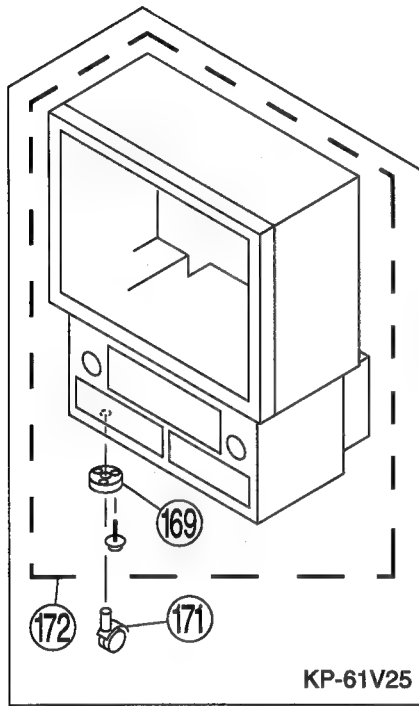
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	▲ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)		116	* A-1306-497-A	M BOARD, COMPLETE	
102	* A-1316-212-A	G BOARD, COMPLETE		117	* A-1373-514-A	U BOARD, COMPLETE	
103	▲ 1-769-837-11	CORD. POWER(WITH NOISE FILTER)	(7.0A/125V)	118	* A-1195-062-A	P BOARD, COMPLETE	
104	* 3-659-682-11	HOLDER, PC BOARD		119	4-047-951-11	TERMINAL BOARD (A)	
105	* 4-382-848-01	HOLDER, PCB		120	4-041-165-01	SCREW (3X12), TAPPING, +BV	
106	* 3-703-141-00	HOLDER, PCB		121	4-047-952-11	TERMINAL BOARD (B)	
107	* A-1341-885-A	E BOARD, COMPLETE		122	1-417-178-11	SELECTOR, ANTENNA (AS-2)	
108	▲ 1-453-189-11	TRANSFORMER ASSY, FLYBACK (NX-2631/A4S)		123	1-556-945-21	CABLE, P-P	
109	▲ 1-900-211-34	LEAD ASSY, HV		124	* 4-047-950-01	BRACKET, D PC BOARD	
110	* 3-687-542-41	SPACER, PC BOARD SPACE		125	* A-1346-296-A	D BOARD, COMPLETE	
111	4-041-164-11	SCREW (4X20), TAPPING		126	* 4-047-949-01	BRACKET, MAIN PC BOARD	
112	▲ 8-598-955-00	BLOCK ASSY, HIGH-VOLTAGE		127	▲ 8-598-047-11	TUNER, ET (BTF-LA401)	
113	4-373-137-01	CAP (Z), RUBBER		128	* 1-557-056-41	CABLE, P-P	
114	* A-1297-493-A	A BOARD, COMPLETE	(KP-46V25/53V25)	129	8-741-797-01	FILTER, DIGITAL COM SBX1797-01	
	* A-1297-606-A	A BOARD, COMPLETE	(KP-61V25)	130	4-047-937-01	LABEL (B), TERMINAL	
115	▲ 8-598-254-00	TUNER (BTF-WA402)		131	4-049-665-01	LABEL, IN/OUT	

## 5-4. PICTURE TUBE

■ : 7-685-663-79 +BVTP 4X16

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT)	(KP-46V25/53V25)	161	* A-1390-491-A	ZB BOARD, COMPLETE	
	4-040-131-01	LENS (LINNIT POINT 6)	(KP-61V25)	162	$\Delta$ 1-452-790-21	NECK ASSY	
152	4-034-057-11	LENS (LINNIT)	(KP-46V25/53V25)	163	$\Delta$ 1-452-790-11	NECK ASSY	
	4-040-131-11	LENS (LINNIT POINT 6)	(KP-61V25)	164	* A-1331-408-A	CR BOARD, COMPLETE	
153	$\Delta$ 8-736-080-05	PICTURE TUBE 07MAB5(R)	(KP-46V25)	165	* A-1331-409-A	CG BOARD, COMPLETE	
	$\Delta$ 8-736-082-05	PICTURE TUBE 07MAB6(R)	(KP-53V25/61V25)	166	* A-1331-410-A	CB BOARD, COMPLETE	
154	$\Delta$ 8-736-078-05	PICTURE TUBE 07MAB5(G)	(KP-46V25)	167	4-041-164-11	SCREW (4X20), TAPPING	
155	$\Delta$ 8-736-079-05	PICTURE TUBE 07MAB5(B)	(KP-46V25)	168	* X-4032-691-1	CABINET ASSY, BOTTOM	(KP-53V25) 169
	$\Delta$ 8-736-081-05	PICTURE TUBE 07MAB6(B)	(KP-53V25/61V25)		* X-4032-692-1	CABINET ASSY, BOTTOM	(KP-46V25) 169
156	4-048-142-01	SPRING, TENSION		169	4-030-850-01	SOCKET, CASTER	
157	$\Delta$ 8-451-463-11	DEFLECTION YOKE (Y829PA2N) (R), (G)	(KP-46V25/53V25)	170	4-049-006-01	CASTER	(KP-46V25/53V25)
158	$\Delta$ 8-451-463-21	DEFLECTION YOKE (Y829PA2N2) (B)	(KP-61V25)	171	4-040-508-01	CASTER	(KP-61V25)
159	* A-1390-487-A	ZR BOARD, COMPLETE		172	* X-4032-761-1	CABINET ASSY	(KP-61V25) 169
160	* A-1390-489-A	ZG BOARD, COMPLETE					



## SECTION 6

### ELECTRICAL PARTS LIST

**P**

**NOTE:**

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**RESISTORS**

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• **CAPACITORS**  
PF :  $\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1195-062-A P BOARD, COMPLETE *****				C3250	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
<CAPACITOR>				C3251	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
C3201	1-126-967-11	ELECT 47 $\mu$ F	20% 16V	C3252	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C3203	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V	C3253	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3204	1-126-964-11	ELECT 10 $\mu$ F	20% 50V	C3254	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3205	1-126-964-11	ELECT 10 $\mu$ F	20% 50V	C3255	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3206	1-126-964-11	ELECT 10 $\mu$ F	20% 50V	C3256	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
C3207	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C3257	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3208	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C3258	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C3209	1-126-111-11	ELECT 3.3 $\mu$ F	20% 50V	C3259	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C3210	1-126-967-11	ELECT 47 $\mu$ F	20% 16V	C3260	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C3212	1-126-111-11	ELECT 3.3 $\mu$ F	20% 50V	C3261	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3213	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3263	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3214	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3264	1-165-319-11	CERAMIC CHIP 0.1 $\mu$ F	50V
C3215	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3265	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3216	1-164-005-11	CERAMIC CHIP 0.47 $\mu$ F	25V	C3266	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3217	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3267	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3218	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3268	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3219	1-126-935-11	ELECT 470 $\mu$ F	20% 16V	C3269	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3220	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3270	1-165-319-11	CERAMIC CHIP 0.1 $\mu$ F	50V
C3221	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3271	1-165-319-11	CERAMIC CHIP 0.1 $\mu$ F	50V
C3222	1-164-336-11	CERAMIC CHIP 0.33 $\mu$ F	25V	C3272	1-165-319-11	CERAMIC CHIP 0.1 $\mu$ F	50V
C3223	1-164-336-11	CERAMIC CHIP 0.33 $\mu$ F	25V	C3273	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C3224	1-164-222-11	CERAMIC CHIP 0.22 $\mu$ F	25V	C3274	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3225	1-164-222-11	CERAMIC CHIP 0.22 $\mu$ F	25V	C3275	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3226	1-164-005-11	CERAMIC CHIP 0.47 $\mu$ F	25V	C3276	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C3227	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V	C3277	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3228	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C3278	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3229	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C3279	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
C3230	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V	C3280	1-126-964-11	ELECT 10 $\mu$ F	20% 50V
C3231	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C3282	1-164-346-11	CERAMIC CHIP 1 $\mu$ F	16V
C3232	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	<CONNECTOR>			
C3233	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	CN150	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P	
C3234	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	<DIODE>			
C3235	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	D3202	8-719-031-68	DIODE HVU359TRF	
C3236	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	D3203	8-719-404-46	DIODE MA110	
C3237	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	D3208	8-719-110-17	DIODE RD10ESB2	
C3238	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	D3209	8-719-110-17	DIODE RD10ESB2	
C3239	1-163-141-00	CERAMIC CHIP 0.001 $\mu$ F	5% 50V	<IC>			
C3240	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	IC3200	8-759-288-13	IC MSM51C262-ZS	
C3241	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	IC3201	8-759-093-29	IC MB86144BPF-G-BND	
C3242	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	IC3202	8-759-093-28	IC MB40176PF-G-BND-EF	
C3243	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	IC3203	8-759-093-28	IC MB40176PF-G-BND-EF	
C3244	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	IC3204	8-759-093-25	IC MB3512PFQ	
C3245	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	IC3205	8-759-243-19	IC TC7SU04F	
C3246	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V	<COIL>			
C3247	1-163-033-91	CERAMIC CHIP 0.022 $\mu$ F	50V				
C3248	1-163-125-00	CERAMIC CHIP 220PF	5% 50V				
C3249	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L3201	1-410-470-11	INDUCTOR 10μH		R3248	1-216-295-91	CONDUCTOR, CHIP	
L3202	1-408-424-00	INDUCTOR 180μH		R3249	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
L3203	1-408-424-00	INDUCTOR 180μH		R3250	1-216-043-91	METAL GLAZE 560	5% 1/10W
L3204	1-410-476-11	INDUCTOR 33μH		R3251	1-216-049-91	METAL GLAZE 1K	5% 1/10W
L3205	1-410-470-11	INDUCTOR 10μH		R3252	1-216-043-91	METAL GLAZE 560	5% 1/10W
L3206	1-410-387-11	INDUCTOR 33μH		R3253	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
L3207	1-410-387-11	INDUCTOR 33μH		R3254	1-216-043-91	METAL GLAZE 560	5% 1/10W
L3208	1-410-387-11	INDUCTOR 33μH		R3255	1-216-041-00	METAL GLAZE 470	5% 1/10W
L3209	1-410-387-11	INDUCTOR 33μH		R3256	1-216-043-91	METAL GLAZE 560	5% 1/10W
				R3259	1-216-298-00	METAL GLAZE 2.2	5% 1/10W
		<TRANSISTOR>		R3260	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q3201	8-729-216-22	TRANSISTOR 2SA1162-G		R3263	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q3202	8-729-422-27	TRANSISTOR 2SD601A-Q		R3264	1-216-025-91	METAL GLAZE 100	5% 1/10W
Q3203	8-729-216-22	TRANSISTOR 2SA1162-G		R3265	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q3204	8-729-216-22	TRANSISTOR 2SA1162-G		R3266	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
Q3206	8-729-422-27	TRANSISTOR 2SD601A-Q		R3267	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
Q3207	8-729-216-22	TRANSISTOR 2SA1162-G		R3268	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
Q3208	8-729-422-27	TRANSISTOR 2SD601A-Q		R3269	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
Q3209	8-729-216-22	TRANSISTOR 2SA1162-G		R3270	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
Q3210	8-729-216-22	TRANSISTOR 2SA1162-G		R3271	1-216-655-11	METAL CHIP 1.5K	0.50% 1/10W
		<RESISTOR>		R3273	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R3201	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R3274	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3202	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R3275	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3203	1-216-025-91	METAL GLAZE 100	5% 1/10W	R3276	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3204	1-216-025-91	METAL GLAZE 100	5% 1/10W	R3277	1-216-298-00	METAL GLAZE 2.2	5% 1/10W
R3205	1-216-121-91	METAL GLAZE 1M	5% 1/10W			<CRYSTAL>	
R3207	1-216-295-91	CONDUCTOR, CHIP		X3201	1-567-878-11	VIBRATOR, CRYSTAL	
R3208	1-216-097-91	METAL GLAZE 100K	5% 1/10W	X3202	1-567-878-11	VIBRATOR, CRYSTAL	
R3209	1-216-079-00	METAL GLAZE 18K	5% 1/10W			*****	
R3210	1-216-089-91	METAL GLAZE 47K	5% 1/10W			* A-1297-493-A A BOARD, COMPLETE (KP-46V25/53V25)	
R3211	1-216-073-00	METAL GLAZE 10K	5% 1/10W			*****	
R3212	1-216-073-00	METAL GLAZE 10K	5% 1/10W			* A-1297-606-A A BOARD, COMPLETE (KP-61V25)	
R3213	1-216-075-00	METAL GLAZE 12K	5% 1/10W			*****	
R3214	1-216-121-91	METAL GLAZE 1M	5% 1/10W			4-365-216-00 SPACER, MICA	
R3215	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W			4-382-854-11 SCREW (M3X10), P, SW (+)	
R3216	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W			<CAPACITOR>	
R3217	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	C201	1-104-665-11	ELECT 100μF	20% 25V
R3218	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C202	1-102-125-00	CERAMIC 0.0047μF	10% 50V
R3219	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C203	1-130-489-00	FILM 0.033μF	5% 50V
R3220	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C204	1-124-902-00	ELECT 0.47μF	20% 50V
R3221	1-216-655-11	METAL CHIP 1.5K	0.50% 1/10W	C205	1-104-665-11	ELECT 100μF	20% 25V
R3222	1-216-655-11	METAL CHIP 1.5K	0.50% 1/10W	C206	1-124-902-00	ELECT 0.47μF	20% 50V
R3223	1-216-025-91	METAL GLAZE 100	5% 1/10W	C207	1-124-903-11	ELECT 1μF	20% 50V
R3224	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C208	1-124-768-11	ELECT 4.7μF	20% 50V
R3225	1-216-025-91	METAL GLAZE 100	5% 1/10W	C209	1-124-903-11	ELECT 1μF	20% 50V
R3226	1-216-085-00	METAL GLAZE 33K	5% 1/10W	C210	1-102-125-00	CERAMIC 0.0047μF	10% 50V
R3227	1-216-647-11	METAL CHIP 680	0.50% 1/10W	C211	1-130-489-00	FILM 0.033μF	5% 50V
R3228	1-216-045-00	METAL GLAZE 680	5% 1/10W	C212	1-124-768-11	ELECT 4.7μF	20% 50V
R3229	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C220	1-126-964-11	ELECT 10μF	20% 50V
R3230	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C221	1-126-964-11	ELECT 10μF	20% 50V
R3231	1-216-001-00	METAL GLAZE 10	5% 1/10W	C222	1-126-964-11	ELECT 10μF	20% 50V
R3232	1-216-083-00	METAL GLAZE 27K	5% 1/10W	C223	1-126-964-11	ELECT 10μF	20% 50V
R3233	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C226	1-104-665-11	ELECT 100μF	20% 25V
R3234	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	C232	1-104-664-11	ELECT 47μF	20% 25V
R3235	1-216-043-91	METAL GLAZE 560	5% 1/10W	C233	1-104-664-11	ELECT 47μF	20% 25V
R3236	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	C234	1-104-664-11	ELECT 47μF	20% 25V
R3237	1-216-043-91	METAL GLAZE 560	5% 1/10W	C235	1-104-664-11	ELECT 47μF	20% 25V
R3238	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C236	1-124-902-00	ELECT 0.47μF	20% 50V
R3239	1-216-043-91	METAL GLAZE 560	5% 1/10W	C237	1-124-927-11	ELECT 4.7μF	20% 50V
R3241	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	C238	1-104-665-11	ELECT 100μF	20% 25V
R3242	1-216-049-91	METAL GLAZE 1K	5% 1/10W	C239	1-126-943-11	ELECT 2200μF	20% 25V
R3243	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R3244	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R3245	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R3246	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W				
R3247	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W				

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>							
C240	1-126-943-11	ELECT	2200μF 20%	25V	CN221	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P
C241	1-137-399-11	FILM	0.1μF 5%	50V	CN222	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P
C242	1-137-399-11	FILM	0.1μF 5%	50V	CN223	*1-564-507-11	PLUG, CONNECTOR 4P
C243	1-137-399-11	FILM	0.1μF 5%	50V	CN224	*1-564-507-11	PLUG, CONNECTOR 4P
C244	1-104-665-11	ELECT	100μF 20%	25V	CN225	*1-564-513-11	PLUG, CONNECTOR 10P
C245	1-137-399-11	FILM	0.1μF 5%	50V	CN511	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
C262	1-104-664-11	ELECT	47μF 20%	25V	CN527	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
C263	1-104-665-11	ELECT	100μF 20%	25V	CN528	1-695-915-11	TAB (CONTACT)
C264	1-104-665-11	ELECT	100μF 20%	25V	CN541	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
C265	1-104-665-11	ELECT	100μF 20%	25V	CN571	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
C266	1-104-665-11	ELECT	100μF 20%	25V	CN1026	*1-564-506-11	PLUG, CONNECTOR 3P
C267	1-104-664-11	ELECT	47μF 20%	25V	<DIODE>		
C270	1-102-978-00	CERAMIC	220PF 5%	50V	D201	8-719-110-17	DIODE RD10ESB2
C271	1-102-123-00	CERAMIC	0.0033μF 10%	50V	D202	8-719-110-17	DIODE RD10ESB2
C272	1-102-074-00	CERAMIC	0.001μF 10%	50V	D220	8-719-911-19	DIODE 1SS119-25
C273	1-126-111-11	ELECT	3.3μF 20%	50V	D221	8-719-911-19	DIODE 1SS119-25
C274	1-126-964-11	ELECT	10μF 20%	50V	D230	8-719-911-19	DIODE 1SS119-25
C275	1-124-902-00	ELECT	0.47μF 20%	50V	D231	8-719-911-19	DIODE 1SS119-25
C276	1-102-125-00	CERAMIC	0.0047μF 10%	50V	D232	8-719-911-19	DIODE 1SS119-25
C277	1-124-927-11	ELECT	4.7μF 20%	50V	D233	8-719-911-19	DIODE 1SS119-25
C278	1-124-925-11	ELECT	2.2μF 20%	50V	D234	8-719-911-19	DIODE 1SS119-25
C279	1-124-927-11	ELECT	4.7μF 20%	50V	D235	8-719-911-19	DIODE 1SS119-25
C280	1-124-927-11	ELECT	4.7μF 20%	50V	D262	8-719-911-19	DIODE 1SS119-25
C281	1-102-123-00	CERAMIC	0.0033μF 10%	50V	D263	8-719-911-19	DIODE 1SS119-25
C282	1-102-125-00	CERAMIC	0.0047μF 10%	50V	D264	8-719-911-19	DIODE 1SS119-25
C283	1-124-927-11	ELECT	4.7μF 20%	50V	D301	8-719-110-56	DIODE RD22ESB1
C284	1-124-925-11	ELECT	2.2μF 20%	50V	D302	8-719-110-56	DIODE RD22ESB1
C285	1-124-927-11	ELECT	4.7μF 20%	50V	D303	8-719-110-56	DIODE RD22ESB1
C286	1-124-927-11	ELECT	4.7μF 20%	50V	D304	8-719-110-56	DIODE RD22ESB1
C287	1-102-074-00	CERAMIC	0.001μF 10%	50V	D501	8-719-911-19	DIODE 1SS119-25
C288	1-104-665-11	ELECT	100μF 20%	25V	D502	8-719-109-72	DIODE RD3.9ESB2
C289	1-124-903-11	ELECT	1μF 20%	50V	D504	8-719-911-19	DIODE 1SS119-25
C290	1-102-978-00	CERAMIC	220PF 5%	50V	D505	8-719-911-19	DIODE 1SS119-25
C291	1-124-902-00	ELECT	0.47μF 20%	50V	D506	8-719-300-80	DIODE RU-1C
C292	1-104-664-11	ELECT	47μF 20%	25V	D507	8-719-018-82	DIODE RGP02-20EL-6394
C501	1-124-902-00	ELECT	0.47μF 20%	50V	D509	8-719-900-95	DIODE V09G (KP-46V25,KP-53V25)
C502	1-104-664-11	ELECT	47μF 20%	25V	D510	8-719-900-95	DIODE V09G (KP-46V25,KP-53V25)
C503	1-137-370-11	FILM	0.01μF 5%	50V	D511	8-719-911-19	DIODE 1SS119-25
C504	1-164-070-11	CERAMIC	100PF 5%	50V	D1001	8-719-110-76	DIODE RD33ESB1
C505	1-137-372-11	FILM	0.022μF 5%	50V	D1002	8-719-110-76	DIODE RD33ESB1
C506	1-123-024-21	ELECT	33μF	160V	<IC>		
C507	1-107-368-11	FILM	0.047μF 10%	200V	IC201	8-759-135-80	IC μPC358C
C508	1-107-638-11	ELECT	33μF 20%	160V	IC202	8-759-090-21	IC TDA8424
C509	1-107-368-11	FILM	0.047μF 10%	200V	IC230	8-759-190-89	IC TDA7265
C510	1-102-030-00	CERAMIC	330PF 10%	500V	IC262	8-759-054-12	IC PQ09RA1
C511	1-137-414-11	FILM	0.0047μF 10%	100V	IC263	8-759-504-46	IC PQ05RF1
C512	1-162-115-00	CERAMIC	330PF 10%	2KV	IC264	8-759-701-79	IC NJM7812FA
C513	1-136-598-11	FILM	3μF 5%	200V	IC270	8-759-253-06	IC XR1071CP
C514	1-136-613-11	FILM	0.0068μF 3%	2KV	IC271	8-752-057-18	IC CXA1315P
C515	1-162-114-00	CERAMIC	0.0047μF 10%	2KV	IC1001	8-759-300-71	IC HD14053BFP
C516	1-107-719-11	ELECT	220μF 20%	50V	<COIL>		
C517	1-126-971-11	ELECT	470μF 20%	50V	L501	1-411-189-11	COIL, CHOKE 15mH
C518	1-126-971-11	ELECT	470μF 20%	50V	L503	1-406-832-11	COIL, HORIZONTAL LINEARITY(HLC)
C519	1-124-903-11	ELECT	1μF 20%	50V	L1001	1-408-408-00	INDUCTOR 8.2μH
C1001	1-124-927-11	ELECT	4.7μF 20%	50V	L1002	1-408-408-00	INDUCTOR 8.2μH
C1002	1-126-964-11	ELECT	10μF 20%	50V	L1003	1-408-408-00	INDUCTOR 8.2μH
C1003	1-128-551-11	ELECT	22μF 20%	50V	L1004	1-408-408-00	INDUCTOR 8.2μH
C1004	1-126-935-11	ELECT	470μF 20%	16V	<TRANSISTOR>		
C1005	1-104-665-11	ELECT	100μF 20%	25V	Q220	8-729-927-14	TRANSISTOR DTC323TS
C1006	1-101-004-00	CERAMIC	0.01μF 5%	50V			
C1007	1-126-935-11	ELECT	470μF 20%	16V			
C1008	1-101-004-00	CERAMIC	0.01μF 5%	50V			
C1009	1-126-964-11	ELECT	10μF 20%	50V			
C1010	1-126-964-11	ELECT	10μF 20%	50V			
C1011	1-102-121-00	CERAMIC	0.0022μF 10%	50V			
C1012	1-102-121-00	CERAMIC	0.0022μF 10%	50V			

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q221	8-729-119-76	TRANSISTOR 2SA1175-HFE		R251	1-249-437-11	CARBON 47K	5% 1/4W
Q222	8-729-927-14	TRANSISTOR DTC323TS		R252	1-249-417-11	CARBON 1K	5% 1/4W
Q223	8-729-119-76	TRANSISTOR 2SA1175-HFE		R253	1-249-417-11	CARBON 1K	5% 1/4W
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE		R254	1-249-417-11	CARBON 1K	5% 1/4W
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE		R255	1-249-429-11	CARBON 10K	5% 1/4W
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE		R256	1-249-436-11	CARBON 39K	5% 1/4W
Q233	8-729-119-78	TRANSISTOR 2SC2785-HFE		R257	1-249-429-11	CARBON 10K	5% 1/4W
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE		R258	1-249-429-11	CARBON 10K	5% 1/4W
Q235	8-729-119-76	TRANSISTOR 2SA1175-HFE		R259	1-216-357-00	METAL OXIDE 4.7	5% 1W F
Q236	8-729-119-78	TRANSISTOR 2SC2785-HFE		R260	1-216-357-00	METAL OXIDE 4.7	5% 1W F
Q237	8-729-119-78	TRANSISTOR 2SC2785-HFE		R270	1-215-440-00	METAL 6.2K	1% 1/4W
Q238	8-729-119-78	TRANSISTOR 2SC2785-HFE		R271	1-249-429-11	CARBON 10K	5% 1/4W
Q270	8-729-119-76	TRANSISTOR 2SA1175-HFE		R272	1-247-883-00	CARBON 150K	5% 1/4W
Q271	8-729-119-78	TRANSISTOR 2SC2785-HFE		R274	1-249-441-11	CARBON 100K	5% 1/4W
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R276	1-249-425-11	CARBON 4.7K	5% 1/4W
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE		R279	1-249-441-11	CARBON 100K	5% 1/4W
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R280	1-249-417-11	CARBON 1K	5% 1/4W
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE		R281	1-249-429-11	CARBON 10K	5% 1/4W
Q505	8-729-119-80	TRANSISTOR 2SC2688-LK		R282	1-215-440-00	METAL 6.2K	1% 1/4W
Q506	8-729-201-32	TRANSISTOR 2SA1013-O		R283	1-249-429-11	CARBON 10K	5% 1/4W
Q507	8-729-304-92	TRANSISTOR 2SB649A-C		R501	1-249-421-11	CARBON 2.2K	5% 1/4W
Q508	8-729-201-32	TRANSISTOR 2SA1013-O		R502	1-249-429-11	CARBON 10K	5% 1/4W
Q509	8-729-010-98	TRANSISTOR 2SA1492M-OPY		R503	1-249-441-11	CARBON 100K	5% 1/4W
Q510	8-729-021-48	TRANSISTOR 2SD2348LBSOY		R504	1-249-429-11	CARBON 10K	5% 1/4W
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE		R505	1-215-437-00	METAL 4.7K	1% 1/4W
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE		R506	1-215-433-00	METAL 3.3K	1% 1/4W
Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE		R507	1-249-407-11	CARBON 150	5% 1/4W
Q1003	8-729-119-76	TRANSISTOR 2SA1175-HFE		R508	1-249-421-11	CARBON 2.2K	5% 1/4W
Q1004	8-729-119-78	TRANSISTOR 2SC2785-HFE		R509	1-249-423-11	CARBON 3.3K	5% 1/4W
<RESISTOR>				R510	1-249-417-11	CARBON 1K	5% 1/4W
R207	1-249-431-11	CARBON 15K	5% 1/4W	R511	1-247-895-91	CARBON 470K	5% 1/4W
R208	1-249-429-11	CARBON 10K	5% 1/4W	R512	1-215-925-11	METAL OXIDE 22K	5% 3W F
R209	1-249-431-11	CARBON 15K	5% 1/4W	R513	1-215-900-11	METAL OXIDE 22K	5% 2W F
R210	1-247-815-91	CARBON 220	5% 1/4W	R514	1-249-421-11	CARBON 2.2K	5% 1/4W F
R211	1-249-429-11	CARBON 10K	5% 1/4W	R515	1-215-925-11	METAL OXIDE 22K	5% 3W F
R212	1-249-441-11	CARBON 100K	5% 1/4W	R516	1-249-430-11	CARBON 12K	5% 1/4W F
R213	1-249-441-11	CARBON 100K	5% 1/4W	R517	1-249-429-11	CARBON 10K	5% 1/4W
R214	1-247-815-91	CARBON 220	5% 1/4W	R518	1-249-427-11	CARBON 6.8K	5% 1/4W F
R215	1-249-441-11	CARBON 100K	5% 1/4W	R519	1-249-417-11	CARBON 1K	5% 1/4W
R216	1-249-441-11	CARBON 100K	5% 1/4W	R520	1-249-423-11	CARBON 3.3K	5% 1/4W F
R217	1-247-807-31	CARBON 100	5% 1/4W	R521	1-249-437-11	CARBON 47K	5% 1/4W
R218	1-247-807-31	CARBON 100	5% 1/4W	R522	1-249-417-11	CARBON 1K	5% 1/4W F
R219	1-249-417-11	CARBON 1K	5% 1/4W	R523	1-249-426-11	CARBON 5.6K	5% 1/4W F
R220	1-249-429-11	CARBON 10K	5% 1/4W	R524	1-215-925-11	METAL OXIDE 22K	5% 3W F
R221	1-249-437-11	CARBON 47K	5% 1/4W	R525	1-216-373-11	METAL OXIDE 2.2	5% 2W F
R222	1-249-417-11	CARBON 1K	5% 1/4W	R526	1-216-478-11	METAL OXIDE 390	5% 3W F
R223	1-249-429-11	CARBON 10K	5% 1/4W	R528	1-216-477-11	METAL OXIDE 270	5% 3W F
R224	1-249-429-11	CARBON 10K	5% 1/4W	(KP-46V25, KP-53V25)			5% 3W F
R230	1-249-430-11	CARBON 12K	5% 1/4W	(KP-46V25, KP-53V25)			5% 3W F
R231	1-249-429-11	CARBON 10K	5% 1/4W	R530	1-216-477-11	METAL OXIDE 270	5% 3W F
R233	1-249-429-11	CARBON 10K	5% 1/4W	(KP-46V25, KP-53V25)			5% 3W F
R234	1-249-441-11	CARBON 100K	5% 1/4W	R531	1-216-477-11	METAL OXIDE 270	5% 3W F
R235	1-249-414-11	CARBON 560	5% 1/4W	(KP-46V25, KP-53V25)			5% 3W F
R236	1-249-432-11	CARBON 18K	5% 1/4W	R532	1-215-442-00	METAL 7.5K	1% 1/4W
R237	1-249-414-11	CARBON 560	5% 1/4W	R533	1-215-443-00	METAL 8.2K	1% 1/4W
R238	1-249-431-11	CARBON 15K	5% 1/4W	R534	1-215-437-00	METAL 4.7K	1% 1/4W
R239	1-249-430-11	CARBON 12K	5% 1/4W	R1001	1-215-900-11	METAL OXIDE 22K	5% 2W F
R241	1-249-439-11	CARBON 68K	5% 1/4W	R1002	1-215-900-11	METAL OXIDE 22K	5% 2W F
R242	1-249-432-11	CARBON 18K	5% 1/4W	R1003	1-249-411-11	CARBON 330	5% 1/4W
R243	1-247-863-91	CARBON 22K	5% 1/4W	R1004	1-249-434-11	CARBON 27K	5% 1/4W
R244	1-247-863-91	CARBON 22K	5% 1/4W	R1005	1-249-436-11	CARBON 39K	5% 1/4W
R245	1-249-437-11	CARBON 47K	5% 1/4W	R1006	1-249-434-11	CARBON 27K	5% 1/4W
R246	1-247-863-91	CARBON 22K	5% 1/4W	R1007	1-249-425-11	CARBON 4.7K	5% 1/4W
R247	1-249-430-11	CARBON 12K	5% 1/4W	R1009	1-247-807-31	CARBON 100	5% 1/4W
R248	1-249-437-11	CARBON 47K	5% 1/4W	R1010	1-249-411-11	CARBON 330	5% 1/4W
R249	1-247-807-31	CARBON 100	5% 1/4W	R1011	1-249-425-11	CARBON 4.7K	5% 1/4W
R250	1-249-417-11	CARBON 1K	5% 1/4W	R1012	1-249-425-11	CARBON 4.7K	5% 1/4W
				R1013	1-247-807-31	CARBON 100	5% 1/4W



Les composants identifiés par  
 une trame et une marque  $\Delta$   
 sont critiques pour la sécurité.  
 Ne les remplacer que par une  
 pièce portant le numéro spécifié.

The components identified by  
 shading and mark  $\Delta$  are critical  
 for safety.  
 Replace only with part number  
 specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1014	1-249-436-11	CARBON 39K 5%	1/4W
R1016	1-247-807-31	CARBON 100 5%	1/4W
R1017	1-249-417-11	CARBON 1K 5%	1/4W
R1018	1-215-432-00	METAL 3K 1%	1/4W
R1019	1-249-441-11	CARBON 100K 5%	1/4W

<RELAY>

RY230	1-755-028-11	RELAY
RY231	1-755-028-11	RELAY

<TRANSFORMER>

T501	$\Delta$ 1-437-078-11	TRANSFORMER, HORIZONTAL DRIVE
------	-----------------------	-------------------------------

<TUNER>

TU1001	$\Delta$ 8-598-047-11	TUNER, ET (BTF-LA401)
TU1002	$\Delta$ 8-598-254-00	TUNER (BTF-WA402)

\*\*\*\*\*

\*A-1306-497-A M BOARD, COMPLETE  
 \*\*\*\*\*

<CAPACITOR>

C001	1-126-935-11	ELECT 470 $\mu$ F 20%	16V
C002	1-126-916-11	ELECT 1000 $\mu$ F 20%	6.3V
C004	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C005	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C006	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C007	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C009	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C010	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C011	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C012	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C013	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C014	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C015	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C016	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C017	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C018	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C019	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C020	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C021	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C022	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C023	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C024	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C025	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C026	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C028	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C029	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C030	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C031	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C032	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C033	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F 10%	25V
C034	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C035	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C037	1-163-009-11	CERAMIC CHIP 0.001 $\mu$ F 10%	50V
C038	1-126-940-11	ELECT 330 $\mu$ F 20%	16V
C040	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C041	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C042	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C046	1-163-125-00	CERAMIC CHIP 220PF 5%	50V
C047	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C048	1-163-245-11	CERAMIC CHIP 56PF 5%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C049	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C050	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 5%	50V
C051	1-163-017-00	CERAMIC CHIP 0.0047 $\mu$ F 10%	50V
C054	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C055	1-163-037-11	CERAMIC CHIP 0.022 $\mu$ F 10%	25V
C056	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C057	1-163-159-00	CERAMIC CHIP 12PF 2%	50V
C058	1-104-896-11	CERAMIC CHIP 24PF 2%	50V
C060	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C062	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V	
C063	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C064	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C065	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V	
C066	1-163-135-00	CERAMIC CHIP 560PF 5%	50V
C067	1-137-399-11	FILM 0.1 $\mu$ F 5%	50V
C068	1-137-367-11	FILM 0.0033 $\mu$ F 5%	50V
C069	1-137-375-11	FILM 0.068 $\mu$ F 5%	50V
C070	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C071	1-124-464-11	ELECT 0.22 $\mu$ F 20%	50V
C074	1-126-940-11	ELECT 330 $\mu$ F 20%	16V
C075	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C302	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C303	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C304	1-124-927-11	ELECT 4.7 $\mu$ F 20%	50V
C309	1-163-019-00	CERAMIC CHIP 0.0068 $\mu$ F 10%	50V
C310	1-163-017-00	CERAMIC CHIP 0.0047 $\mu$ F 10%	50V
C311	1-124-925-11	ELECT 2.2 $\mu$ F 20%	50V
C312	1-163-017-00	CERAMIC CHIP 0.0047 $\mu$ F 10%	50V
C313	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C314	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C315	1-126-934-11	ELECT 220 $\mu$ F 20%	16V
C316	1-131-374-00	TANTALUM 33 $\mu$ F 10%	16V
C317	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C318	1-124-925-11	ELECT 2.2 $\mu$ F 20%	50V
C319	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C320	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C321	1-163-017-00	CERAMIC CHIP 0.0047 $\mu$ F 10%	50V
C323	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C324	1-128-551-11	ELECT 22 $\mu$ F 20%	50V
C327	1-163-139-00	CERAMIC CHIP 820PF 5%	50V
C328	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C329	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C338	1-124-927-11	ELECT 4.7 $\mu$ F 20%	50V
C339	1-124-464-11	ELECT 0.22 $\mu$ F 20%	50V
C340	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C341	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C342	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C343	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C344	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C345	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C346	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C347	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C348	1-163-097-00	CERAMIC CHIP 15PF 5%	50V
C349	1-163-109-00	CERAMIC CHIP 47PF 5%	50V
C350	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C352	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F 50V	
C353	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C354	1-163-101-00	CERAMIC CHIP 22PF 5%	50V
C355	1-128-551-11	ELECT 22 $\mu$ F 20%	50V
C357	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C358	1-163-097-00	CERAMIC CHIP 15PF 5%	50V
C359	1-163-125-00	CERAMIC CHIP 220PF 5%	50V
C360	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C361	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C362	1-163-101-00	CERAMIC CHIP 22PF 5%	50V
C363	1-163-009-11	CERAMIC CHIP 0.001 $\mu$ F 10%	50V
C364	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C365	1-163-101-00	CERAMIC CHIP 22PF 5%	50V





REF. NO.	PART NO.	DESCRIPTION	REMARK
C366	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C368	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C369	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C370	1-104-665-11	ELECT 100μF	20% 25V
C371	1-104-665-11	ELECT 100μF	20% 25V

<CHIP CONDUCTOR>

CJ001	1-216-295-91	CONDUCTOR, CHIP
CJ002	1-216-295-91	CONDUCTOR, CHIP
CJ003	1-216-295-91	CONDUCTOR, CHIP

<CONNECTOR>

CN046	*1-564-512-11	PLUG, CONNECTOR 9P
CN052	*1-564-507-11	PLUG, CONNECTOR 4P
CN053	*1-564-507-11	PLUG, CONNECTOR 4P
CN054	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P
CN304	*1-564-512-11	PLUG, CONNECTOR 9P
CN321	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P
CN322	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P
CN351	*1-564-509-11	PLUG, CONNECTOR 6P
CN355	*1-565-930-11	CONNECTOR (RECEPTACLE) 30P
CN356	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CN357	*1-564-516-11	PLUG, CONNECTOR 13P
CN358	*1-564-508-11	PLUG, CONNECTOR 5P

<DIODE>

D001	8-719-404-46	DIODE MA110
D002	8-719-404-46	DIODE MA110
D003	8-719-404-46	DIODE MA110
D004	8-719-109-88	DIODE RD5.6ESB1
D005	8-719-109-88	DIODE RD5.6ESB1
D006	8-719-109-88	DIODE RD5.6ESB1
D007	8-719-109-88	DIODE RD5.6ESB1
D008	8-719-002-81	DIODE 1T363
D009	8-719-404-46	DIODE MA110
D010	8-719-404-46	DIODE MA110
D011	8-719-404-46	DIODE MA110
D012	8-719-404-46	DIODE MA110
D013	8-719-404-46	DIODE MA110
D014	8-719-404-46	DIODE MA110
D015	8-719-404-46	DIODE MA110
D016	8-719-404-46	DIODE MA110
D017	8-719-404-46	DIODE MA110
D018	8-719-404-46	DIODE MA110
D019	8-719-404-46	DIODE MA110
D020	8-719-105-91	DIODE RD5.6M-B2
D305	8-719-121-24	DIODE RD9.1ESL
D307	8-719-121-24	DIODE RD9.1ESL
D308	8-719-110-22	DIODE RD11ESB2
D309	8-719-109-84	DIODE RD5.1ESB1
D310	8-719-914-44	DIODE DAP202K
D311	8-719-914-43	DIODE DAN202K
D312	8-719-404-46	DIODE MA110
D313	8-719-404-46	DIODE MA110
D314	8-719-404-46	DIODE MA110
D315	8-719-109-88	DIODE RD5.6ESB1
D316	8-719-404-46	DIODE MA110
D317	8-719-110-22	DIODE RD11ESB2
D320	8-719-404-46	DIODE MA110
D321	8-719-404-46	DIODE MA110
D322	8-719-404-46	DIODE MA110
D323	8-719-404-46	DIODE MA110
D324	8-719-404-46	DIODE MA110
D325	8-719-404-46	DIODE MA110
D326	8-719-110-08	DIODE RD8.2ESB2
D327	8-719-404-46	DIODE MA110

REF. NO.	PART NO.	DESCRIPTION	REMARK
D328	8-719-911-19	DIODE 1SS119-25	

<IC>

IC001	8-759-112-06	IC μPC78N05H
IC002	8-752-867-91	IC CXP85332A-046S
IC003	8-759-284-16	IC ST24C04CB1
IC004	8-759-328-12	IC Z8622812PSC
IC005	8-759-280-75	IC ST24C01CB1
IC006	8-759-403-44	IC MN1280-S
IC301	8-752-063-50	IC CXA1477AS
IC302	8-759-701-75	IC NJM7805FA

<COIL>

L003	1-410-470-11	INDUCTOR 10μH
L004	1-410-476-11	INDUCTOR 33μH
L005	1-410-470-11	INDUCTOR 10μH
L006	1-410-470-11	INDUCTOR 10μH
L302	1-408-413-00	INDUCTOR 22μH
L303	1-408-416-00	INDUCTOR 39μH
L304	1-410-468-11	INDUCTOR 6.8μH

<TRANSISTOR>

Q001	8-729-216-22	TRANSISTOR 2SA1162-G
Q002	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q003	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q004	8-729-216-22	TRANSISTOR 2SA1162-G
Q005	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q007	8-729-216-22	TRANSISTOR 2SA1162-G
Q008	8-729-216-22	TRANSISTOR 2SA1162-G
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q010	8-729-216-22	TRANSISTOR 2SA1162-G
Q011	8-729-216-22	TRANSISTOR 2SA1162-G
Q012	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q013	8-729-216-22	TRANSISTOR 2SA1162-G
Q014	8-729-216-22	TRANSISTOR 2SA1162-G
Q015	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q016	8-729-216-22	TRANSISTOR 2SA1162-G
Q017	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q018	8-729-216-22	TRANSISTOR 2SA1162-G
Q019	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q301	8-729-216-22	TRANSISTOR 2SA1162-G
Q302	8-729-216-22	TRANSISTOR 2SA1162-G
Q303	8-729-216-22	TRANSISTOR 2SA1162-G
Q304	8-729-216-22	TRANSISTOR 2SA1162-G
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q308	8-729-216-22	TRANSISTOR 2SA1162-G
Q309	8-729-216-22	TRANSISTOR 2SA1162-G
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q314	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q317	8-729-216-22	TRANSISTOR 2SA1162-G
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q319	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R001	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R073	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R002	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R074	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R003	1-216-033-00	METAL GLAZE 220	5% 1/10W	R075	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R004	1-216-033-00	METAL GLAZE 220	5% 1/10W	R076	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R005	1-216-033-00	METAL GLAZE 220	5% 1/10W	R077	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R006	1-216-033-00	METAL GLAZE 220	5% 1/10W	R078	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R007	1-216-033-00	METAL GLAZE 220	5% 1/10W	R079	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R008	1-216-033-00	METAL GLAZE 220	5% 1/10W	R080	1-216-023-00	METAL GLAZE 82	5% 1/10W
R009	1-216-033-00	METAL GLAZE 220	5% 1/10W	R081	1-216-041-00	METAL GLAZE 470	5% 1/10W
R010	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R082	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R011	1-216-033-00	METAL GLAZE 220	5% 1/10W	R083	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R012	1-216-033-00	METAL GLAZE 220	5% 1/10W	R084	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R013	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R085	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R014	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R086	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R015	1-216-033-00	METAL GLAZE 220	5% 1/10W	R087	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R016	1-216-033-00	METAL GLAZE 220	5% 1/10W	R088	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R017	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R089	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R018	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R090	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R019	1-216-033-00	METAL GLAZE 220	5% 1/10W	R091	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R020	1-216-033-00	METAL GLAZE 220	5% 1/10W	R092	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R021	1-216-033-00	METAL GLAZE 220	5% 1/10W	R093	1-216-295-91	CONDUCTOR, CHIP	
R022	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R094	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R023	1-216-121-91	METAL GLAZE 1M	5% 1/10W	R095	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R024	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R096	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R025	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R097	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R026	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R098	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R027	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R099	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R028	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R100	1-216-295-91	CONDUCTOR, CHIP	
R029	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R031	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R102	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R032	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R103	1-216-045-00	METAL GLAZE 680	5% 1/10W
R033	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R104	1-216-033-00	METAL GLAZE 220	5% 1/10W
R034	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R106	1-216-033-00	METAL GLAZE 220	5% 1/10W
R035	1-216-033-00	METAL GLAZE 220	5% 1/10W	R107	1-216-033-00	METAL GLAZE 220	5% 1/10W
R036	1-216-025-91	METAL GLAZE 100	5% 1/10W	R108	1-216-033-00	METAL GLAZE 220	5% 1/10W
R037	1-216-033-00	METAL GLAZE 220	5% 1/10W	R109	1-216-033-00	METAL GLAZE 220	5% 1/10W
R038	1-216-033-00	METAL GLAZE 220	5% 1/10W	R110	1-216-033-00	METAL GLAZE 220	5% 1/10W
R039	1-216-025-91	METAL GLAZE 100	5% 1/10W	R111	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R040	1-216-033-00	METAL GLAZE 220	5% 1/10W	R112	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R041	1-216-033-00	METAL GLAZE 220	5% 1/10W	R113	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R042	1-216-033-00	METAL GLAZE 220	5% 1/10W	R114	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R043	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R115	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R044	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R116	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R045	1-216-033-00	METAL GLAZE 220	5% 1/10W	R117	1-216-047-91	METAL GLAZE 820	5% 1/10W
R046	1-216-033-00	METAL GLAZE 220	5% 1/10W	R118	1-216-047-91	METAL GLAZE 820	5% 1/10W
R047	1-216-033-00	METAL GLAZE 220	5% 1/10W	R119	1-216-047-91	METAL GLAZE 820	5% 1/10W
R048	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R120	1-216-033-00	METAL GLAZE 220	5% 1/10W
R049	1-216-033-00	METAL GLAZE 220	5% 1/10W	R300	1-216-025-91	METAL GLAZE 100	5% 1/10W
R050	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R301	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R051	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R302	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R052	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R303	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R054	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R304	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R055	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R305	1-216-025-91	METAL GLAZE 100	5% 1/10W
R056	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R306	1-216-025-91	METAL GLAZE 100	5% 1/10W
R057	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R307	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R058	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R308	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R059	1-216-295-91	CONDUCTOR, CHIP		R309	1-216-025-91	METAL GLAZE 100	5% 1/10W
R060	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R310	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R061	1-216-033-00	METAL GLAZE 220	5% 1/10W	R311	1-216-025-91	METAL GLAZE 100	5% 1/10W
R062	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R312	1-216-033-00	METAL GLAZE 220	5% 1/10W
R063	1-216-041-00	METAL GLAZE 470	5% 1/10W	R313	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R064	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R314	1-216-033-00	METAL GLAZE 220	5% 1/10W
R065	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R315	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R066	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R317	1-216-033-00	METAL GLAZE 220	5% 1/10W
R067	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R318	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R068	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R319	1-216-190-00	METAL GLAZE 470	5% 1/8W
R069	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R320	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R071	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R321	1-216-190-00	METAL GLAZE 470	5% 1/8W
R072	1-216-041-00	METAL GLAZE 470	5% 1/10W				



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK
R323	1-216-295-91	CONDUCTOR, CHIP	
R324	1-216-025-91	METAL GLAZE 100	5%
R325	1-216-043-91	METAL GLAZE 560	5%
R326	1-216-077-00	METAL GLAZE 15K	5%
R327	1-216-033-00	METAL GLAZE 220	5%
R328	1-216-025-91	METAL GLAZE 100	5%
R329	1-216-085-00	METAL GLAZE 33K	5%
R330	1-216-039-00	METAL GLAZE 390	5%
R331	1-216-059-00	METAL GLAZE 2.7K	5%
R332	1-216-049-91	METAL GLAZE 1K	5%
R333	1-208-810-11	METAL CHIP 15K	0.50%
R335	1-216-033-00	METAL GLAZE 220	5%
R336	1-216-033-00	METAL GLAZE 220	5%
R337	1-216-049-91	METAL GLAZE 1K	5%
R338	1-216-049-91	METAL GLAZE 1K	5%
R339	1-216-655-11	METAL CHIP 1.5K	0.50%
R340	1-216-033-00	METAL GLAZE 220	5%
R341	1-216-033-00	METAL GLAZE 220	5%
R342	1-216-033-00	METAL GLAZE 220	5%
R343	1-216-077-00	METAL GLAZE 15K	5%
R344	1-216-073-00	METAL GLAZE 10K	5%
R345	1-216-025-91	METAL GLAZE 100	5%
R346	1-216-037-00	METAL GLAZE 330	5%
R347	1-216-041-00	METAL GLAZE 470	5%
R348	1-216-049-91	METAL GLAZE 1K	5%
R349	1-216-033-00	METAL GLAZE 220	5%
R350	1-216-033-00	METAL GLAZE 220	5%
R351	1-216-033-00	METAL GLAZE 220	5%
R352	1-216-057-00	METAL GLAZE 2.2K	5%
R353	1-216-069-00	METAL GLAZE 6.8K	5%
R354	1-216-053-00	METAL GLAZE 1.5K	5%
R355	1-216-071-00	METAL GLAZE 8.2K	5%
R356	1-216-031-00	METAL GLAZE 180	5%
R357	1-216-031-00	METAL GLAZE 180	5%
R358	1-216-049-91	METAL GLAZE 1K	5%
R359	1-216-037-00	METAL GLAZE 330	5%
R360	1-216-035-00	METAL GLAZE 270	5%
R361	1-216-049-91	METAL GLAZE 1K	5%
R362	1-216-035-00	METAL GLAZE 270	5%
R363	1-216-049-91	METAL GLAZE 1K	5%
R364	1-216-025-91	METAL GLAZE 100	5%
R366	1-216-053-00	METAL GLAZE 1.5K	5%
R367	1-216-057-00	METAL GLAZE 2.2K	5%
R368	1-216-025-91	METAL GLAZE 100	5%
R369	1-216-061-00	METAL GLAZE 3.3K	5%
R370	1-216-033-00	METAL GLAZE 220	5%
R371	1-216-049-91	METAL GLAZE 1K	5%
R372	1-216-051-00	METAL GLAZE 1.2K	5%
R373	1-216-035-00	METAL GLAZE 270	5%
R374	1-216-085-00	METAL GLAZE 33K	5%
R375	1-216-075-00	METAL GLAZE 12K	5%
R376	1-216-093-00	METAL GLAZE 68K	5%
R377	1-216-043-91	METAL GLAZE 560	5%
R378	1-216-059-00	METAL GLAZE 2.7K	5%
R379	1-216-083-00	METAL GLAZE 27K	5%
R380	1-216-097-91	METAL GLAZE 100K	5%
R381	1-216-071-00	METAL GLAZE 8.2K	5%
R382	1-216-085-00	METAL GLAZE 33K	5%
R383	1-216-043-91	METAL GLAZE 560	5%
R384	1-216-053-00	METAL GLAZE 1.5K	5%
R385	1-216-085-00	METAL GLAZE 33K	5%
R386	1-216-121-91	METAL GLAZE 1M	5%
R387	1-216-049-91	METAL GLAZE 1K	5%
R388	1-216-025-91	METAL GLAZE 100	5%
R389	1-216-033-00	METAL GLAZE 220	5%
R390	1-216-033-00	METAL GLAZE 220	5%
R391	1-216-061-00	METAL GLAZE 3.3K	5%
R392	1-216-059-00	METAL GLAZE 2.7K	5%

REF. NO.	PART NO.	DESCRIPTION	REMARK
R393	1-249-417-11	CARBON 1K	5% 1/4W

<CRYSTAL>

X001	1-579-917-11	VIBRATOR, CRYSTAL	
X301	1-577-611-11	OSCILATOR, CERAMIC	
X302	1-567-505-11	OSCILLATOR, CRYSTAL	

\*\*\*\*\*

\* A-1316-212-A G BOARD, COMPLETE  
\*\*\*\*\*

\* 4-047-936-01 PLATE, SHIELD, PIT  
4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C601	$\Delta$ 1-136-311-51	FILM	0.47 $\mu$ F	20%	125V
C602	$\Delta$ 1-162-577-51	CERAMIC	0.0022 $\mu$ F	20%	400V
C603	$\Delta$ 1-162-577-51	CERAMIC	0.0022 $\mu$ F	20%	400V
C604	$\Delta$ 1-125-692-11	ELECT(BLOCK)	820 $\mu$ F	20%	200V
C605	$\Delta$ 1-125-692-11	ELECT(BLOCK)	820 $\mu$ F	20%	200V
C608	1-164-645-11	CERAMIC	1000PF	10%	500V
C609	1-164-645-11	CERAMIC	1000PF	10%	500V
C610	1-136-173-00	FILM	0.47 $\mu$ F	5%	50V
C611	1-136-171-00	FILM	0.33 $\mu$ F	5%	50V
C612	1-136-173-00	FILM	0.47 $\mu$ F	5%	50V
C613	1-136-171-00	FILM	0.33 $\mu$ F	5%	50V
C614	1-164-735-11	CAP, CERAMIC	1500PF		
C615	1-129-720-00	FILM	0.033 $\mu$ F	5%	630V
C616	$\Delta$ 1-136-311-51	FILM	0.47 $\mu$ F	20%	125V
C618	$\Delta$ 1-162-575-51	CERAMIC	470PF	10%	400V
C619	$\Delta$ 1-162-575-51	CERAMIC	470PF	10%	400V
C651	1-128-548-11	ELECT	4700 $\mu$ F	20%	25V
C652	1-128-548-11	ELECT	4700 $\mu$ F	20%	25V
C653	1-162-318-11	CERAMIC	0.001 $\mu$ F	10%	500V
C656	1-128-548-11	ELECT	4700 $\mu$ F	20%	25V
C657	1-126-926-11	ELECT	1000 $\mu$ F	20%	10V
C658	1-126-768-11	ELECT	2200 $\mu$ F	20%	16V
C659	1-126-944-11	ELECT	3300 $\mu$ F	20%	25V
C660	1-164-644-11	CERAMIC	330PF	10%	500V
C661	1-123-024-21	ELECT	33 $\mu$ F		160V
C662	1-107-636-11	ELECT	10 $\mu$ F	20%	160V
C663	1-126-948-11	ELECT	100 $\mu$ F	20%	35V
C664	1-126-235-11	ELECT	100 $\mu$ F	20%	6.3V
C665	1-126-964-11	ELECT	10 $\mu$ F	20%	50V
C667	1-126-951-11	ELECT	470 $\mu$ F	20%	35V
C668	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C669	1-162-318-11	CERAMIC	0.001 $\mu$ F	10%	500V
C670	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C671	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C672	1-104-665-11	ELECT	100 $\mu$ F	20%	25V
C673	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C674	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C675	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C676	1-104-664-11	ELECT	47 $\mu$ F	20%	25V
C677	1-125-473-11	ELECT(BLOCK)	1000 $\mu$ F	20%	160V
C678	1-107-635-11	ELECT	4.7 $\mu$ F	20%	160V
C679	1-164-644-11	CERAMIC	330PF	10%	500V
C680	1-124-903-11	ELECT	1 $\mu$ F	20%	50V
C682	1-124-903-11	ELECT	1 $\mu$ F	20%	50V
C683	1-107-635-11	ELECT	4.7 $\mu$ F	20%	160V
C690	1-126-934-11	ELECT	220 $\mu$ F	20%	16V

<CONNECTOR>

CN606	1-695-915-11	TAB (CONTACT)	
-------	--------------	---------------	--

G

Les composants identifiés par  
une trame et une marque  $\Delta$   
sont critiques pour la sécurité.  
Ne les remplacer que par une  
pièce portant le numéro spécifié.

The components identified by  
shading and mark  $\Delta$  are critical  
for safety.  
Replace only with part number  
specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN615	1-695-915-11	TAB (CONTACT)	
CN616	*1-564-507-11	PLUG, CONNECTOR 4P	
CN617	*1-580-843-11	PIN, CONNECTOR (POWER)	
CN624	*1-564-507-11	PLUG, CONNECTOR 4P	
CN625	*1-564-513-11	PLUG, CONNECTOR 10P	
CN626	*1-564-506-11	PLUG, CONNECTOR 3P	
CN653	*1-564-507-11	PLUG, CONNECTOR 4P	
CN681	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	

<DIODE>

D601	$\Delta$ 8-719-052-29	DIODE 1N45B60	
D604	8-719-911-19	DIODE 1SS119-25	
D605	8-719-911-19	DIODE 1SS119-25	
D606	8-719-911-19	DIODE 1SS119-25	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D609	8-719-911-19	DIODE 1SS119-25	
D610	8-719-911-19	DIODE 1SS119-25	
D611	8-719-911-19	DIODE 1SS119-25	
D651	8-719-052-91	DIODE D4SBS4-F	
D655	8-719-052-92	DIODE D10SBS4F	
D656	8-719-022-97	DIODE D2S4MF	
D657	8-719-022-97	DIODE D2S4MF	
D658	8-719-022-97	DIODE D2S4MF	
D659	8-719-022-97	DIODE D2S4MF	
D660	8-719-052-86	DIODE D2L40-TA	
D661	8-719-052-86	DIODE D2L40-TA	
D662	8-719-052-31	DIODE D1NL40-TR2	
D663	8-719-052-31	DIODE D1NL40-TR2	
D664	8-719-510-26	DIODE D1NL20	
D665	8-719-911-19	DIODE 1SS119-25	
D666	8-719-110-58	DIODE RD22ESB3	
D667	8-719-110-22	DIODE RD11ESB2	
D669	8-719-911-19	DIODE 1SS119-25	
D670	8-719-110-41	DIODE RD15ESB2	
D671	8-719-911-19	DIODE 1SS119-25	
D672	8-719-109-54	DIODE RD2.2ESB2	
D673	8-719-110-49	DIODE RD18ESB2	
D674	8-719-911-19	DIODE 1SS119-25	
D675	8-719-109-85	DIODE RD5.1ESB2	
D676	8-719-911-19	DIODE 1SS119-25	
D677	8-719-911-19	DIODE 1SS119-25	
D678	8-719-911-19	DIODE 1SS119-25	
D679	8-719-911-19	DIODE 1SS119-25	
D680	8-719-200-82	DIODE 11ES2	
D681	8-719-200-82	DIODE 11ES2	
D682	8-719-200-82	DIODE 11ES2	
D683	8-719-200-82	DIODE 11ES2	
D685	8-719-911-19	DIODE 1SS119-25	
D686	8-719-911-19	DIODE 1SS119-25	
D687	8-719-109-51	DIODE RD2.0ESB2	
D688	8-719-911-19	DIODE 1SS119-25	
D689	8-719-911-19	DIODE 1SS119-25	
D690	8-719-109-89	DIODE RD5.6ESB2	
D691	8-719-911-19	DIODE 1SS119-25	
D693	8-719-911-19	DIODE 1SS119-25	

<FUSE>

F601	$\Delta$ 1-576-193-11	FUSE (6.3A/125V)	
	1-533-223-11	CLIP, FUSE ; F601	

<FERRITE BEAD>

FB651	1-410-396-41	FERRITE BEAD INDUCTOR 0.45 $\mu$ H	
FB652	1-410-396-41	FERRITE BEAD INDUCTOR 0.45 $\mu$ H	

REF. NO.	PART NO.	DESCRIPTION	REMARK
----------	----------	-------------	--------

<IC>

IC651	$\Delta$ 1-810-051-11	POWER MODULE DM-48	
IC652	8-759-701-79	IC NJM7812FA	

<COIL>

L651	1-403-588-11	CIL, CHOKE 22 $\mu$ H	
L652	1-403-588-11	CIL, CHOKE 22 $\mu$ H	
L653	1-412-519-11	INDUCTOR 3.3 $\mu$ H	
L654	1-403-588-11	CIL, CHOKE 22 $\mu$ H	
L655	1-403-588-11	CIL, CHOKE 22 $\mu$ H	

L656	1-412-519-11	INDUCTOR 3.3 $\mu$ H	
L657	1-403-588-11	CIL, CHOKE 22 $\mu$ H	
L658	1-403-588-11	CIL, CHOKE 22 $\mu$ H	

<TRANSISTOR>

Q601	8-729-019-49	TRANSISTOR 2SC4834M	
Q602	8-729-019-49	TRANSISTOR 2SC4834M	
Q651	8-729-820-82	TRANSISTOR 2SA1208-S	
Q652	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q653	8-729-230-45	TRANSISTOR 2SC2458-YGR	

Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q655	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q656	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q657	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q658	8-729-119-76	TRANSISTOR 2SA1175-HFE	

Q659	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q660	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q661	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q662	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q663	8-729-119-76	TRANSISTOR 2SA1175-HFE	

<RESISTOR>

R602	$\Delta$ 1-219-236-91	SOLID	2.2M	20%	1/2W	
R603	$\Delta$ 1-205-997-11	WIREWOUND	2.2	5%	10W	
R604	$\Delta$ 1-247-891-91	CARBON	330K	5%	1/4W	
R605	$\Delta$ 1-247-891-91	CARBON	330K	5%	1/4W	
R606	$\Delta$ 1-202-933-61	FUSIBLE	0.1	10%	1/2W	F

R607	1-247-891-00	CARBON	330K	5%	1/4W	
R608	1-247-891-00	CARBON	330K	5%	1/4W	
R609	1-216-369-00	METAL OXIDE	1	5%	2W	F
R610	1-247-891-00	CARBON	330K	5%	1/4W	
R611	1-247-891-00	CARBON	330K	5%	1/4W	

R612	1-216-369-00	METAL OXIDE	1	5%	2W	F
R613	1-247-791-91	CARBON	22	5%	1/4W	
R614	1-247-791-91	CARBON	22	5%	1/4W	
R615	1-247-791-91	CARBON	22	5%	1/4W	
R616	1-247-791-91	CARBON	22	5%	1/4W	

R631	1-247-863-91	CARBON	22K	5%	1/4W	
R632	1-247-807-31	CARBON	100	5%	1/4W	
R633	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-249-417-11	CARBON	1K	5%	1/4W	
R635	1-249-425-11	CARBON	4.7K	5%	1/4W	

R636	1-249-413-11	CARBON	470	5%	1/4W	
R651	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R653	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R654	1-215-473-00	METAL	150K	1%	1/4W	
R655	1-249-441-11	CARBON	100K	5%	1/4W	

R656	1-216-369-00	METAL OXIDE	1	5%	2W	F
R657	1-249-429-11	CARBON	10K	5%	1/4W	
R658	1-247-883-00	CARBON	150K	5%	1/4W	
R659	1-249-417-11	CARBON	1K	5%	1/4W	F
R660	1-249-417-11	CARBON	1K	5%	1/4W	

R661	1-215-471-00	METAL	120K	1%	1/4W	
R662	$\Delta$ 1-215-452-91	METAL	20K	1%	1/4W	
R664	1-249-429-11	CARBON	10K	5%	1/4W	
R665	1-249-425-11	CARBON	4.7K	5%	1/4W	

The components identified by  
 shading and mark  $\Delta$  are critical  
 for safety.  
 Replace only with part number  
 specified.

Les composants identifiés par  
 une trame et une marque  $\Delta$   
 sont critiques pour la sécurité.  
 Ne les remplacer que par une  
 pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK
R666	1-249-429-11	CARBON 10K 5%	1/4W
R667	1-249-429-11	CARBON 10K 5%	1/4W
R670	1-247-895-91	CARBON 470K 5%	1/4W
R672	1-247-807-31	CARBON 100 5%	1/4W
R673	1-249-423-11	CARBON 3.3K 5%	1/4W
R674	1-249-413-11	CARBON 470 5%	1/4W
R675	1-249-429-11	CARBON 10K 5%	1/4W
R676	1-249-421-11	CARBON 2.2K 5%	1/4W
R677	1-249-417-11	CARBON 1K 5%	1/4W
R678	1-249-423-11	CARBON 3.3K 5%	1/4W
R679	1-249-423-11	CARBON 3.3K 5%	1/4W
R680	1-249-413-11	CARBON 470 5%	1/4W
R681	1-249-425-11	CARBON 4.7K 5%	1/4W
R682	1-249-403-11	CARBON 68 5%	1/4W
R683	1-249-417-11	CARBON 1K 5%	1/4W
R684	1-249-417-11	CARBON 1K 5%	1/4W
R685	1-247-863-91	CARBON 22K 5%	1/4W
R686	1-249-429-11	CARBON 10K 5%	1/4W
R687	1-249-423-11	CARBON 3.3K 5%	1/4W
R688	1-249-423-11	CARBON 3.3K 5%	1/4W
R689	1-249-429-11	CARBON 10K 5%	1/4W
R690	1-247-863-91	CARBON 22K 5%	1/4W
R691	1-249-417-11	CARBON 1K 5%	1/4W
R693	1-249-425-11	CARBON 4.7K 5%	1/4W
R694	1-249-425-11	CARBON 4.7K 5%	1/4W
R695	1-249-429-11	CARBON 10K 5%	1/4W
R697	1-249-413-11	CARBON 470 5%	1/4W
R698	1-249-429-11	CARBON 10K 5%	1/4W
R699	1-249-417-11	CARBON 1K 5%	1/4W

<RELAY>

RY601  $\Delta$  1-755-032-11 RELAY  
 RY602  $\Delta$  1-755-032-11 RELAY

<TRANSFORMER>

T601  $\Delta$  1-427-850-11 TRANSFORMER, LINE FILTER  
 T602  $\Delta$  1-427-863-11 TRANSFORMER, CONVERTER (PIT)  
 T603  $\Delta$  1-427-865-11 TRANSFORMER, POWER  
 T604  $\Delta$  1-427-864-11 TRANSFORMER, CONVERTER (PRT)  
 T605  $\Delta$  1-427-850-11 TRANSFORMER, LINE FILTER

\*\*\*\*\*

\* A-1331-408-A CR BOARD, COMPLETE  
 \*\*\*\*\*

<CAPACITOR>

C701	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C702	1-107-662-11	ELECT 22 $\mu$ F 20%	250V
C703	1-161-754-00	CERAMIC 0.001 $\mu$ F 10%	2KV
C704	1-126-768-11	ELECT 2200 $\mu$ F 20%	16V
C705	1-102-050-00	CERAMIC 0.01 $\mu$ F	500V
C706	1-102-965-00	CERAMIC 39PF 5%	50V
C707	1-102-129-00	CERAMIC 0.01 $\mu$ F 10%	50V
C708	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C709	1-107-651-11	ELECT 4.7 $\mu$ F 20%	250V
C710	1-102-157-00	CERAMIC 560PF 10%	500V
C714	1-162-115-00	CERAMIC 330PF 10%	2KV

<CONNECTOR>

CN701 \* 1-508-784-00 PIN, CONNECTOR (5mm PITCH) 1P  
 CN702 \* 1-564-510-11 PLUG, CONNECTOR 7P  
 CN703 \* 1-564-512-11 PLUG, CONNECTOR 9P

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN704	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN705	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN706	1-695-915-11	TAB (CONTACT)	
CN708	$\Delta$ 1-251-179-11	SOCKET, PICTURE TUBE	
CN709	* 1-564-506-11	PLUG, CONNECTOR 3P	

<DIODE>

D701	8-719-911-19	DIODE 1SS119-25	
D702	8-719-911-19	DIODE 1SS119-25	
D703	8-719-911-19	DIODE 1SS119-25	
D704	8-719-110-36	DIODE RD13ESB2	
D705	8-719-987-87	DIODE ERA85-009	
D706	8-719-911-19	DIODE 1SS119-25	
D707	8-719-110-36	DIODE RD13ESB2	
D708	8-719-901-83	DIODE 1SS83	
D710	8-719-109-89	DIODE RD5.6ESB2	
D711	8-719-911-19	DIODE 1SS119-25	
D713	8-719-510-48	DIODE D1N20R	
D715	8-719-901-83	DIODE 1SS83	
D716	8-719-110-36	DIODE RD13ESB2	
D717	8-719-110-36	DIODE RD13ESB2	

<IC>

IC701 8-759-168-72 IC TDA6101Q

<COIL>

L701 1-408-429-00 INDUCTOR 470 $\mu$ H

<NEON LAMP>

NL701 1-519-108-99 LAMP, NEON

<TRANSISTOR>

Q701 8-729-119-76 TRANSISTOR 2SA1175-HFE

<RESISTOR>

R701	1-215-411-00	METAL 390	1%	1/4W
R702	1-215-414-00	METAL 510	1%	1/4W
R704	1-202-847-00	SOLID 560K	20%	1/2W
R706	1-249-407-11	CARBON 150	5%	1/4W
R707	1-215-423-00	METAL 1.2K	1%	1/4W
R708	1-202-883-11	SOLID 680K	20%	1/2W
R709	1-215-437-00	METAL 4.7K	1%	1/4W
R710	1-215-427-00	METAL 1.8K	1%	1/4W
R711	1-215-427-00	METAL 1.8K	1%	1/4W
R712	1-215-903-11	METAL OXIDE 68K	5%	2W F
R713	1-202-818-00	SOLID 1K	20%	1/2W
R714	1-202-818-00	SOLID 1K	20%	1/2W
R715	1-249-436-11	CARBON 39K	5%	1/4W
R716	1-249-437-11	CARBON 47K	5%	1/4W
R718	1-249-417-11	CARBON 1K	5%	1/4W
R719	1-247-807-31	CARBON 100	5%	1/4W
R720	1-249-437-11	CARBON 47K	5%	1/4W
R721	1-202-549-00	SOLID 100	20%	1/2W
R722	1-202-549-00	SOLID 100	20%	1/2W

<SPARK GAP>

SG701 1-519-422-11 GAP, SPARK  
 SG702 1-519-422-11 GAP, SPARK  
 SG703 1-519-422-11 GAP, SPARK

\*\*\*\*\*

CG

CB

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO. PART NO. DESCRIPTION REMARK

\*A-1331-409-A CG BOARD, COMPLETE  
\*\*\*\*\*

<CAPACITOR>

C731	1-161-754-00	CERAMIC	0.001 $\mu$ F	10%	2KV
C732	1-107-662-11	ELECT	22 $\mu$ F	20%	250V
C733	1-102-050-00	CERAMIC	0.01 $\mu$ F		500V
C736	1-126-964-11	ELECT	10 $\mu$ F	20%	50V
C738	1-107-651-91	ELECT	4.7 $\mu$ F	20%	250V
C739	1-101-888-00	CERAMIC	68PF	5%	50V
C740	1-126-964-11	ELECT	10 $\mu$ F	20%	50V
C741	1-102-157-00	CERAMIC	560PF	10%	500V
C742	1-162-115-00	CERAMIC	330PF	10%	2KV

<CONNECTOR>

CN731	*1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P.
CN732	*1-564-512-11	PLUG, CONNECTOR 9P
CN733	*1-564-512-11	PLUG, CONNECTOR 9P
CN734	*1-564-511-11	PLUG, CONNECTOR 8P
CN735	*1-564-509-11	PLUG, CONNECTOR 6P

CN736	1-695-915-11	TAB (CONTACT)
CN738 $\Delta$	1-251-179-11	SOCKET, PICTURE TUBE

<DIODE>

D731	8-719-110-36	DIODE RD13ESB2
D732	8-719-901-83	DIODE 1SS83
D735	8-719-901-83	DIODE 1SS83
D736	8-719-510-48	DIODE D1N20R
D737	8-719-110-36	DIODE RD13ESB2

<IC>

IC731	8-759-168-72	IC TDA6101Q
-------	--------------	-------------

<COIL>

L731	1-408-429-00	INDUCTOR 470 $\mu$ H
------	--------------	----------------------

<NEON LAMP>

NL731	1-519-108-99	LAMP, NEON
-------	--------------	------------

<RESISTOR>

R731	1-202-847-00	SOLID	560K	20%	1/2W
R733	1-202-883-11	SOLID	680K	20%	1/2W
R734	1-202-818-00	SOLID	1K	20%	1/2W
R735	1-249-407-11	CARBON	150	5%	1/4W
R736	1-249-441-11	CARBON	100K	5%	1/4W
R737	1-202-818-00	SOLID	1K	20%	1/2W
R738	1-202-549-00	SOLID	100	20%	1/2W
R739	1-215-420-00	METAL	910	1%	1/4W
R740	1-215-427-00	METAL	1.8K	1%	1/4W
R741	1-249-437-11	CARBON	47K	5%	1/4W
R742	1-215-903-11	METAL OXIDE	68K	5%	2W F

<SPARK GAP>

SG731	1-519-422-11	GAP, SPARK
SG732	1-519-422-11	GAP, SPARK
SG733	1-519-422-11	GAP, SPARK

REF. NO. PART NO. DESCRIPTION REMARK

\*A-1331-410-A CB BOARD, COMPLETE  
\*\*\*\*\*

<CAPACITOR>

C761	1-161-754-00	CERAMIC	0.001 $\mu$ F	10%	2KV
C762	1-107-662-11	ELECT	22 $\mu$ F	20%	250V
C763	1-102-050-00	CERAMIC	0.01 $\mu$ F		500V
C766	1-107-651-11	ELECT	4.7 $\mu$ F	20%	250V
C769	1-101-888-00	CERAMIC	68PF	5%	50V
C770	1-126-964-11	ELECT	10 $\mu$ F	20%	50V
C771	1-102-157-00	CERAMIC	560PF	10%	500V
C772	1-162-115-00	CERAMIC	330PF	10%	2KV

<CONNECTOR>

CN761	*1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P
CN762	*1-564-512-11	PLUG, CONNECTOR 9P
CN763	*1-564-509-11	PLUG, CONNECTOR 6P
CN766	1-695-915-11	TAB (CONTACT)
CN768 $\Delta$	1-251-179-11	SOCKET, PICTURE TUBE

<DIODE>

D761	8-719-110-36	DIODE RD13ESB2
D762	8-719-901-83	DIODE 1SS83
D763	8-719-911-19	DIODE 1SS119-25
D764	8-719-110-36	DIODE RD13ESB2
D765	8-719-110-36	DIODE RD13ESB2
D767	8-719-901-83	DIODE 1SS83
D768	8-719-510-48	DIODE D1N20R
D769	8-719-110-36	DIODE RD13ESB2

<IC>

IC761	8-759-168-72	IC TDA6101Q
-------	--------------	-------------

<COIL>

L761	1-408-429-00	INDUCTOR 470 $\mu$ H
------	--------------	----------------------

<NEON LAMP>

NL760	1-519-108-99	LAMP, NEON
-------	--------------	------------

<RESISTOR>

R761	1-202-847-00	SOLID	560K	20%	1/2W
R763	1-202-883-11	SOLID	680K	20%	1/2W
R764	1-202-818-00	SOLID	1K	20%	1/2W
R767	1-202-818-00	SOLID	1K	20%	1/2W
R768	1-202-549-00	SOLID	100	20%	1/2W
R769	1-215-421-00	METAL	1K	1%	1/4W
R770	1-249-426-11	CARBON	5.6K	5%	1/4W
R771	1-215-427-00	METAL	1.8K	1%	1/4W
R773	1-215-903-11	METAL OXIDE	68K	5%	2W F
R774	1-249-407-11	CARBON	150	5%	1/4W
R775	1-202-549-00	SOLID	100	20%	1/2W

<SPARK GAP>

SG761	1-519-422-11	GAP, SPARK
SG762	1-519-422-11	GAP, SPARK
SG763	1-519-422-11	GAP, SPARK

\*\*\*\*\*

\*\*\*\*\*

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

E

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1341-885-A E BOARD, COMPLETE *****			
	4-365-216-00	SPACER, MICA	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C801	1-110-626-11	ELECT 330 $\mu$ F 20%	160V
C802	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C803	1-110-626-11	ELECT 330 $\mu$ F 20%	160V
C805	1-136-173-00	FILM 0.47 $\mu$ F 5%	50V
C806	1-102-030-00	CERAMIC 330PF 10%	500V
C807	1-106-387-00	MYLAR 0.068 $\mu$ F 10%	200V
C808	1-107-636-11	ELECT 10 $\mu$ F 20%	160V
C809	1-104-664-11	ELECT 47 $\mu$ F 20%	25V
C810	1-130-481-00	FILM 0.0068 $\mu$ F 5%	50V
C811	1-137-475-11	FILM 2.2 $\mu$ F 10%	250V
C812	1-128-551-11	ELECT 22 $\mu$ F 20%	50V
C814	1-124-122-11	ELECT 100 $\mu$ F 20%	50V
C815	1-162-114-00	CERAMIC 0.0047 $\mu$ F 2KV	
C818	$\Delta$ 1-109-833-11	FILM 0.0145 $\mu$ F 5%	18KV
C819	1-130-489-00	FILM 0.033 $\mu$ F 5%	50V
C820	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C823	1-136-601-11	FILM 0.01 $\mu$ F 5%	630V
C824	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C825	1-162-318-11	CERAMIC 0.001 $\mu$ F 10%	500V
C826	1-130-467-00	FILM 470PF 5%	50V
C827	1-107-651-11	ELECT 4.7 $\mu$ F 20%	250V
C828	1-111-036-11	ELECT 470 $\mu$ F 20%	16V
C830	1-107-368-11	FILM 0.047 $\mu$ F 10%	200V
C831	1-126-934-11	ELECT 220 $\mu$ F 20%	16V
C832	1-124-927-11	ELECT 4.7 $\mu$ F 20%	50V
C901	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C902	1-137-370-11	FILM 0.01 $\mu$ F 5%	50V
C903	1-137-431-11	FILM 560PF 5%	50V
C904	1-137-358-11	FILM 0.0001 $\mu$ F 5%	50V
C905	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C906	1-137-370-11	FILM 0.01 $\mu$ F 5%	50V
C907	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C908	1-137-361-11	FILM 330PF 5%	50V
C909	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C911	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C912	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C913	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C915	1-163-105-00	CERAMIC CHIP 33PF 5%	50V
C916	1-124-927-11	ELECT 4.7 $\mu$ F 20%	50V
C917	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C918	1-137-364-11	FILM 0.001 $\mu$ F 5%	50V
C919	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C920	1-124-902-00	ELECT 0.47 $\mu$ F 20%	50V
C921	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C923	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C924	1-126-940-11	ELECT 330 $\mu$ F 20%	16V
C925	1-137-372-11	FILM 0.022 $\mu$ F 5%	50V
C926	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C927	1-137-364-11	FILM 0.001 $\mu$ F 5%	50V
C929	1-137-416-11	FILM 0.01 $\mu$ F 10%	100V
C930	1-137-364-11	FILM 0.001 $\mu$ F 5%	50V
C931	1-126-967-11	ELECT 47 $\mu$ F 20%	50V
C932	1-124-903-11	ELECT 1 $\mu$ F 20%	50V
C934	1-137-370-11	FILM 0.01 $\mu$ F 5%	50V
C935	1-137-399-11	FILM 0.1 $\mu$ F 10%	100V
C936	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C937	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C938	1-126-940-11	ELECT 330 $\mu$ F 20%	16V
C939	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C940	1-104-663-11	ELECT 33 $\mu$ F 20%	25V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C941	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C942	1-104-663-11	ELECT 33 $\mu$ F 20%	25V
C943	1-128-551-11	ELECT 22 $\mu$ F 20%	50V
C944	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C945	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C946	1-124-925-11	ELECT 2.2 $\mu$ F 20%	50V
C947	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C948	1-104-665-11	ELECT 100 $\mu$ F 20%	25V
C949	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C950	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C951	1-109-889-11	ELECT 1 $\mu$ F 20%	50V
C955	1-126-964-11	ELECT 10 $\mu$ F 20%	50V
C980	1-137-368-11	FILM 0.0047 $\mu$ F 5%	50V
<CHIP CONDUCTOR>			
CJ901	1-216-295-91	CONDUCTOR, CHIP	
CJ902	1-216-295-91	CONDUCTOR, CHIP	
<CONNECTOR>			
CN802	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN805	1-695-915-11	TAB (CONTACT)	
CN827	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN851	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN881	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
CN882	* 1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN884	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
CN885	* 1-506-371-00	PIN, CONNECTOR 2P	
CN886	* 1-506-371-00	PIN, CONNECTOR 2P	
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P	
<DIODE>			
D801	8-719-109-85	DIODE RD5.1ESB2	
D802	8-719-404-46	DIODE MA110	
D803	8-719-971-20	DIODE ERC38-06	
D804	8-719-908-03	DIODE GP08D	
D805	8-719-945-80	DIODE ERC06-15S	
D806	8-719-911-19	DIODE 1SS119-25	
D807	8-719-945-80	DIODE ERC06-15S	
D808	8-719-500-71	DIODE D8LC40	
D809	8-719-911-19	DIODE 1SS119-25	
D810	8-719-945-80	DIODE ERC06-15S	
D811	8-719-920-67	DIODE ERC91-02	
D812	8-719-404-46	DIODE MA110	
D814	8-719-920-67	DIODE ERC91-02	
D816	8-719-404-46	DIODE MA110	
D817	8-719-404-46	DIODE MA110	
D818	8-719-404-46	DIODE MA110	
D819	8-719-105-82	DIODE RD5.1M-B2	
D901	8-719-404-46	DIODE MA110	
D902	8-719-404-46	DIODE MA110	
D904	8-719-404-46	DIODE MA110	
D905	8-719-404-46	DIODE MA110	
D907	8-719-404-46	DIODE MA110	
D908	8-719-105-82	DIODE RD5.1M-B2	
D909	8-719-302-43	DIODE EL1Z	
D911	8-719-105-82	DIODE RD5.1M-B2	
D912	8-719-105-82	DIODE RD5.1M-B2	
D913	8-719-404-46	DIODE MA110	
D914	8-719-404-46	DIODE MA110	
D915	8-719-404-46	DIODE MA110	
D916	8-719-105-57	DIODE RD3.9M-B1	
D917	8-719-404-46	DIODE MA110	
D918	8-719-404-46	DIODE MA110	
D919	8-719-106-81	DIODE RD13M-B3	
D920	8-759-157-40	IC uPC574J	
D921	8-719-106-81	DIODE RD13M-B3	





• The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D922	8-719-404-46	DIODE MA110		R807	1-260-325-11	CARBON 560	5% 1/2W
D923	8-719-404-46	DIODE MA110		R808		CARBON	1/4W F
D924	8-719-404-46	DIODE MA110		R809		CARBON	1/4W F
D925	8-719-105-45	DIODE RD3.3M-B1		R810	1-249-427-11	CARBON 6.8K	5% 1/4W F
D926	8-719-404-46	DIODE MA110		R811	1-216-097-91	METAL GLAZE 100K	5% 1/10W
D927	8-759-701-79	DIODE NJM7812FA		R812	1-216-395-00	METAL OXIDE 3.3	5% 3W F
<FERRITE BEAD>				R813	1-216-484-00	METAL OXIDE 3.9K	5% 3W F
FB001	1-410-396-41	FERRITE BEAD INDUCTOR 0.45μH		R814	1-215-919-11	METAL OXIDE 2.2K	5% 3W F
<IC>				R816	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
IC901	8-759-133-90	IC μPC339C		R817	1-216-395-00	METAL OXIDE 3.3	5% 3W F
IC902	8-759-133-90	IC μPC339C		R818	1-249-405-11	CARBON 100	5% 1/4W F
IC903	8-759-711-28	IC NJM2058D		R819	1-216-083-00	METAL GLAZE 27K	5% 1/10W
IC904	8-759-634-51	IC M5218AP		R820	1-215-905-11	METAL OXIDE 10	5% 3W F
IC905	8-759-929-65	IC LM7912CT		R821	1-216-073-00	METAL GLAZE 10K	5% 1/10W
IC906	8-759-701-79	IC NJM7812FA		R822	1-215-928-11	METAL OXIDE 68K	5% 3W F
<COIL>				R823	1-216-047-91	METAL GLAZE 820	5% 1/10W
L801	1-406-665-11	COIL, CHOKE 100μH		R825	1-215-928-11	METAL OXIDE 68K	5% 3W F
L802	1-406-665-11	COIL, CHOKE 100μH		R826	1-216-033-00	METAL GLAZE 220	5% 1/10W
L803	1-422-613-11	COIL, AIR CORE		R830	1-215-928-11	METAL OXIDE 68K	5% 3W F
L804	1-411-286-11	COIL, CHOKE 220μH		R831	1-215-919-11	METAL OXIDE 2.2K	5% 3W F
L901	1-408-416-00	INDUCTOR 39μH		R832	1-216-049-91	METAL GLAZE 1K	5% 1/10W
L902	1-408-416-00	INDUCTOR 39μH		R835	1-249-474-11	CARBON 1	5% 1/2W F
<NEON LAMP>				R836	1-202-818-00	SOLID 1K	20% 1/2W
NL802	1-519-108-99	LAMP, NEON		R837	1-215-870-11	METAL OXIDE 1.5K	5% 1W F
<TRANSISTOR>				R838	1-247-807-31	CARBON 100	5% 1/4W
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK		R839	1-249-429-11	CARBON 10K	5% 1/4W F
Q802	8-729-119-80	TRANSISTOR 2SC2688-LK		R841	1-216-491-11	METAL OXIDE 56K	5% 3W F
Q803	8-729-122-12	TRANSISTOR 2SA1221-L		R843	1-202-549-00	SOLID 100	20% 1/2W
Q806	8-729-805-07	TRANSISTOR 2SD1887-CA		R844	1-216-491-11	METAL OXIDE 56K	5% 3W F
Q807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R846	1-202-838-00	SOLID 100K	20% 1/2W
Q808	8-729-024-30	TRANSISTOR IRF1640LF		R847	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q809	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R849	1-247-863-91	CARBON 22K	5% 1/4W
Q810	8-729-231-55	TRANSISTOR 2SC2878-AB		R850	1-216-081-00	METAL GLAZE 22K	5% 1/10W
Q811	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R851	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
Q813	8-729-216-22	TRANSISTOR 2SA1162-G		R852	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R854	1-249-381-11	CARBON 1	5% 1/4W F
Q902	8-729-140-93	TRANSISTOR 2SB733-34		R855	1-208-822-11	METAL CHIP 47K	0.50% 1/10W
Q903	8-729-140-96	TRANSISTOR 2SD774-34		R856	1-208-822-11	METAL CHIP 47K	0.50% 1/10W
Q904	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R857	1-218-755-11	METAL CHIP 130K	0.50% 1/10W
Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R858	1-216-676-11	METAL CHIP 11K	0.50% 1/10W
Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R901	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q907	8-729-231-55	TRANSISTOR 2SC2878-AB		R902	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q908	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R903	1-216-085-00	METAL GLAZE 33K	5% 1/10W
Q909	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R904	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
Q910	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R905	1-247-739-11	CARBON 100	5% 1/2W F
Q911	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R906	1-247-739-11	CARBON 100	5% 1/2W F
Q912	8-729-216-22	TRANSISTOR 2SA1162-G		R907	1-216-091-00	METAL GLAZE 56K	5% 1/10W
Q913	8-729-900-36	TRANSISTOR DTC124ES		R908	1-216-085-00	METAL GLAZE 33K	5% 1/10W
Q914	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R909	1-216-113-00	METAL GLAZE 470K	5% 1/10W
Q915	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R910	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
<RESISTOR>				R911	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R801	1-216-041-00	METAL GLAZE 470	5% 1/10W	R912	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R802	1-249-421-11	CARBON 2.2K	5% 1/4W	R913	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R804	1-249-425-11	CARBON 4.7K	5% 1/4W F	R914	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R805	1-216-435-11	METAL OXIDE 2.7K	5% 1W F	R915	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R806	1-249-431-11	CARBON 15K	5% 1/4W F	R916	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
				R917	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
				R918	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R919	1-216-077-00	METAL GLAZE 15K	5% 1/10W
				R920	1-216-113-00	METAL GLAZE 470K	5% 1/10W
				R921	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
				R922	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R923	1-216-077-00	METAL GLAZE 15K	5% 1/10W
				R924	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
				R926	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R927	1-249-377-11	CARBON 0.47	5% 1/4W F
				R928	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
				R929	1-216-041-00	METAL GLAZE 470	5% 1/10W

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	REMARK
R930	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R931	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R932	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R933	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R934	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R935	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R936	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R937	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R938	1-208-810-11	METAL CHIP 15K	0.50% 1/10W
R939	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R940	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R941	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R942	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R943	1-249-377-11	CARBON 0.47	5% 1/4W F
R944	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R945	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R946	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R947	1-216-025-91	METAL GLAZE 100	5% 1/10W
R948	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R950	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R952	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R954	1-214-777-00	METAL 100K	1% 1/4W
R955	1-214-769-00	METAL 47K	1% 1/4W
R956	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R957	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
R958	1-218-756-11	METAL CHIP 150K	0.50% 1/10W
R959	1-214-757-00	METAL 15K	1% 1/4W
R960	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R961	1-535-303-00	LEAD, JUMPER (5.0mm)	
R962	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R963	1-214-749-00	METAL 6.8K	1% 1/4W
R964	1-214-757-00	METAL 15K	1% 1/4W
R965	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R966	1-214-757-00	METAL 15K	1% 1/4W
R967	1-216-025-91	METAL GLAZE 100	5% 1/10W
R968	1-214-751-00	METAL 8.2K	1% 1/4W
R969	1-214-731-00	METAL 1.2K	1% 1/4W
R970	1-214-757-00	METAL 15K	1% 1/4W
R971	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R972	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R973	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R974	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R975	1-216-043-91	METAL GLAZE 560	5% 1/10W
R976	1-216-041-00	METAL GLAZE 470	5% 1/10W
R977	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R978	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R979	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R980	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R981	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R982	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
$\Delta$ R983	$\Delta$ 1-216-083-00	METAL GLAZE 27K	5% 1/10W
R984	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R985	1-208-812-11	METAL CHIP 18K	0.50% 1/10W
R986	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R987	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
$\Delta$ R988	$\Delta$ 1-216-462-00	METAL OXIDE 8.2K	5% 2W F
R989	1-216-462-00	METAL OXIDE 8.2K	5% 2W F
R990	1-215-897-11	METAL OXIDE 6.8K	5% 2W F
R991	1-208-803-11	METAL CHIP 7.5K	0.50% 1/10W
R992	1-249-431-11	CARBON 15K	5% 1/4W
R993	1-249-431-11	CARBON 15K	5% 1/4W
R994	1-247-807-31	CARBON 100	5% 1/4W
R995	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R996	1-208-814-11	METAL CHIP 22K	0.50% 1/10W
R997	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R998	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R999	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<TRANSFORMER>			
T801	$\Delta$ 1-453-189-11	TRANSFORMER ASSY. FLYBACK (NX-2631/A4S)	
T802	1-437-209-11	TRANSFORMER HORIZONTAL DRIVE	
T803	$\Delta$ 1-427-980-11	TRANSFORMER FERRITE (LOT)	
*****			
* A-1346-296-A D BOARD, COMPLETE			
*****			
4-382-854-11 SCREW (M3X10), P, SW (+)			
7-682-652-09 SCREW +PSW 3X16			
<CAPACITOR>			
C1502	1-126-943-11	ELECT 2200 $\mu$ F	20% 25V
C1503	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
C1504	1-126-943-11	ELECT 2200 $\mu$ F	20% 25V
C1505	1-136-177-00	FILM 1 $\mu$ F	5% 50V
C1506	1-102-228-00	CERAMIC 470PF	10% 500V
C1507	1-164-232-11	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
C1508	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1509	1-124-122-11	ELECT 100 $\mu$ F	20% 50V
C1510	1-137-398-11	FILM 0.068 $\mu$ F	10% 100V
C1511	1-137-423-11	FILM 0.15 $\mu$ F	10% 100V
C1512	1-137-423-11	FILM 0.15 $\mu$ F	10% 100V
C1513	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C1514	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F	5% 50V
C1516	1-136-177-00	FILM 1 $\mu$ F	5% 50V
C1517	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C1551	1-126-964-11	ELECT 10 $\mu$ F	20% 50V
C1603	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1604	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1605	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1606	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1607	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1608	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1611	1-124-122-11	ELECT 100 $\mu$ F	20% 50V
C1612	1-104-665-11	ELECT 100 $\mu$ F	20% 25V
C1613	1-124-122-11	ELECT 100 $\mu$ F	20% 50V
C1615	1-104-665-11	ELECT 100 $\mu$ F	20% 25V
C1617	1-124-122-11	ELECT 100 $\mu$ F	20% 50V
C1619	1-104-665-11	ELECT 100 $\mu$ F	20% 25V
C1620	1-124-122-11	ELECT 100 $\mu$ F	20% 50V
C1622	1-104-665-11	ELECT 100 $\mu$ F	20% 25V
C1701	1-126-935-11	ELECT 470 $\mu$ F	20% 16V
C1702	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1703	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C1704	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C1705	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C1709	1-163-031-11	CERAMIC CHIP 0.01 $\mu$ F	5% 50V
C1723	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1724	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1801	1-124-903-11	ELECT 1 $\mu$ F	20% 50V
C1802	1-126-964-11	ELECT 10 $\mu$ F	20% 50V
C1803	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1805	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1806	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C1807	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1808	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1809	1-126-940-11	ELECT 330 $\mu$ F	20% 16V
C1810	1-126-940-11	ELECT 330 $\mu$ F	20% 16V
C1811	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V
C1812	1-163-809-11	CERAMIC CHIP 0.047 $\mu$ F	10% 25V





REF. NO.	PART NO.	DESCRIPTION	REMARK
C1813	1-163-275-11	CERAMIC CHIP 0.001μF 5%	50V
C1814	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1816	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C1817	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C1818	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1819	1-124-903-11	ELECT 1μF 20%	50V
C1820	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
C1821	1-124-902-00	ELECT 0.47μF 20%	50V
C1822	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
C1823	1-124-903-11	ELECT 1μF 20%	50V
C1824	1-124-903-11	ELECT 1μF 20%	50V
C1825	1-126-967-11	ELECT 47μF 20%	50V
C1826	1-126-967-11	ELECT 47μF 20%	50V
C1827	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1828	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1829	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1830	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1831	1-126-940-11	ELECT 330μF 20%	16V
C1832	1-126-940-11	ELECT 330μF 20%	16V
C1833	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1834	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1835	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1836	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1837	1-164-489-11	CERAMIC CHIP 0.22μF 10%	16V
C1838	1-124-122-11	ELECT 100μF 20%	50V
C1839	1-124-122-11	ELECT 100μF 20%	50V
C1840	1-124-903-11	ELECT 1μF 20%	50V
C1841	1-126-967-11	ELECT 47μF 20%	50V
C1842	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C1843	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C1844	1-126-967-11	ELECT 47μF 20%	50V
C1845	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1847	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1848	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1849	1-124-122-11	ELECT 100μF 20%	50V
C1850	1-124-122-11	ELECT 100μF 20%	50V
C1851	1-137-399-11	FILM 0.1μF 5%	50V
C1852	1-124-122-11	ELECT 100μF 20%	50V
C1853	1-137-378-11	FILM 0.22μF 5%	50V
C1854	1-124-927-11	ELECT 4.7μF 20%	50V
C1855	1-124-903-11	ELECT 1μF 20%	50V
C1856	1-104-665-11	ELECT 100μF 20%	25V
C1857	1-124-122-11	ELECT 100μF 20%	50V
C1858	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1859	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1860	1-163-809-11	CERAMIC CHIP 0.047μF 10%	25V
C1861	1-124-122-11	ELECT 100μF 20%	50V
C1862	1-124-903-11	ELECT 1μF 20%	50V
C1863	1-136-173-00	FILM 0.47μF 5%	50V
C1864	1-124-903-11	ELECT 1μF 20%	50V
C1865	1-124-903-11	ELECT 1μF 20%	50V
C1866	1-126-967-11	ELECT 47μF 20%	50V

<CHIP CONDUCTOR>

CJ1	1-216-295-91	CONDUCTOR, CHIP
CJ2	1-216-295-91	CONDUCTOR, CHIP
CJ3	1-216-295-91	CONDUCTOR, CHIP
CJ4	1-216-295-91	CONDUCTOR, CHIP
CJ5	1-216-295-91	CONDUCTOR, CHIP
CJ6	1-216-295-91	CONDUCTOR, CHIP
CJ7	1-216-295-91	CONDUCTOR, CHIP
CJ8	1-216-295-91	CONDUCTOR, CHIP
CJ9	1-216-295-91	CONDUCTOR, CHIP
CJ10	1-216-295-91	CONDUCTOR, CHIP
CJ11	1-216-295-91	CONDUCTOR, CHIP
CJ12	1-216-295-91	CONDUCTOR, CHIP
CJ13	1-216-295-91	CONDUCTOR, CHIP

REF. NO.	PART NO.	DESCRIPTION	REMARK
CJ16	1-216-295-91	CONDUCTOR, CHIP	
CJ17	1-216-295-91	CONDUCTOR, CHIP	
CJ18	1-216-295-91	CONDUCTOR, CHIP	
CJ19	1-216-295-91	CONDUCTOR, CHIP	
CJ20	1-216-295-91	CONDUCTOR, CHIP	
CJ21	1-216-295-91	CONDUCTOR, CHIP	
CJ22	1-216-295-91	CONDUCTOR, CHIP	
CJ23	1-216-295-91	CONDUCTOR, CHIP	
CJ24	1-216-295-91	CONDUCTOR, CHIP	
CJ25	1-216-295-91	CONDUCTOR, CHIP	
CJ26	1-216-295-91	CONDUCTOR, CHIP	
CJ27	1-216-295-91	CONDUCTOR, CHIP	
CJ28	1-216-295-91	CONDUCTOR, CHIP	
CJ29	1-216-295-91	CONDUCTOR, CHIP	
CJ30	1-216-295-91	CONDUCTOR, CHIP	
CJ31	1-216-295-91	CONDUCTOR, CHIP	
CJ34	1-216-295-91	CONDUCTOR, CHIP	
CJ35	1-216-295-91	CONDUCTOR, CHIP	
CJ36	1-216-295-91	CONDUCTOR, CHIP	
CJ37	1-216-295-91	CONDUCTOR, CHIP	
CJ38	1-216-295-91	CONDUCTOR, CHIP	
CJ39	1-216-295-91	CONDUCTOR, CHIP	
CJ42	1-216-295-91	CONDUCTOR, CHIP	
CJ43	1-216-295-91	CONDUCTOR, CHIP	
CJ44	1-216-295-91	CONDUCTOR, CHIP	
CJ45	1-216-295-91	CONDUCTOR, CHIP	
CJ46	1-216-295-91	CONDUCTOR, CHIP	
CJ47	1-216-295-91	CONDUCTOR, CHIP	
CJ48	1-216-295-91	CONDUCTOR, CHIP	
CJ50	1-216-295-91	CONDUCTOR, CHIP	
CJ51	1-216-295-91	CONDUCTOR, CHIP	
CJ53	1-216-295-91	CONDUCTOR, CHIP	
CJ54	1-216-295-91	CONDUCTOR, CHIP	
CJ55	1-216-295-91	CONDUCTOR, CHIP	
CJ57	1-216-295-91	CONDUCTOR, CHIP	
CJ58	1-216-295-91	CONDUCTOR, CHIP	
CJ59	1-216-295-91	CONDUCTOR, CHIP	
CJ60	1-216-295-91	CONDUCTOR, CHIP	
CJ62	1-216-295-91	CONDUCTOR, CHIP	
CJ63	1-216-295-91	CONDUCTOR, CHIP	

<CONNECTOR>

CN1509	*1-564-506-11	PLUG, CONNECTOR 3P
CN1513	*1-564-506-11	PLUG, CONNECTOR 3P
CN1612	*1-564-507-11	PLUG, CONNECTOR 4P
CN1642	*1-564-507-11	PLUG, CONNECTOR 4P
CN1672	*1-564-507-11	PLUG, CONNECTOR 4P
CN1716	*1-564-507-11	PLUG, CONNECTOR 4P
CN1756	*1-564-508-11	PLUG, CONNECTOR 5P
CN1757	*1-564-516-11	PLUG, CONNECTOR 13P

<DIODE>

D1501	8-719-908-03	DIODE GP08D
D1502	8-719-109-89	DIODE RD5.6ESB2
D1503	8-719-908-03	DIODE GP08D
D1505	8-719-109-88	DIODE RD5.6ESB1
D1551	8-719-109-72	DIODE RD3.9ESB2
D1552	8-719-911-19	DIODE 1SS119-25
D1553	8-719-911-19	DIODE 1SS119-25
D1601	8-719-908-03	DIODE GP08D
D1602	8-719-908-03	DIODE GP08D
D1603	8-719-908-03	DIODE GP08D
D1604	8-719-908-03	DIODE GP08D
D1803	8-719-911-19	DIODE 1SS119-25
D1812	8-719-911-19	DIODE 1SS119-25
D1814	8-719-911-19	DIODE 1SS119-25
D1825	8-719-911-19	DIODE 1SS119-25

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

D

REF. NO.	PART NO.	DESCRIPTION	REMARK
D1826	8-719-911-19	DIODE 1SS119-25	
D1827	8-719-109-68	DIODE RD3.6ESB1	
D1931	8-719-110-60	DIODE RD24ESB	
D1932	8-719-110-60	DIODE RD24ESB	
D1934	8-719-110-60	DIODE RD24ESB	
D1935	8-719-110-60	DIODE RD24ESB	
D1936	8-719-110-60	DIODE RD24ESB	
D1937	8-719-110-60	DIODE RD24ESB	
D1942	8-719-110-60	DIODE RD24ESB	
D1945	8-719-110-60	DIODE RD24ESB	
D1946	8-719-110-60	DIODE RD24ESB	
D1947	8-719-110-60	DIODE RD24ESB	
D1948	8-719-110-36	DIODE RD13ESB2	
D1949	8-719-110-60	DIODE RD24ESB	
D1951	8-719-110-36	DIODE RD13ESB2	
D1953	8-719-110-36	DIODE RD13ESB2	
D1954	8-719-110-36	DIODE RD13ESB2	
<FUSE>			
F1601	$\Delta$ 1-532-745-11	FUSE GLASS TUBE (3.15A/125V)	
	1-533-223-11	CLIP, FUSE ; F601	
F1602	$\Delta$ 1-532-745-11	FUSE GLASS TUBE (3.15A/125V)	
	1-533-223-11	CLIP, FUSE ; F602	
<IC>			
IC1501	8-759-192-71	IC STV9379	
IC1601	8-749-010-88	IC STK392-010	
IC1602	8-749-010-88	IC STK392-010	
IC1701	8-752-861-57	IC CXP85112B-613S	
IC1702	8-759-041-54	IC MN1382S	
IC1801	8-759-327-52	IC PM0002B	
IC1802	8-759-327-51	IC PA0053B	
IC1803	8-759-012-67	IC MC7905CT	
IC1804	8-759-231-53	IC TA7805S	
IC1805	8-759-327-52	IC PM0002B	
IC1806	8-759-327-51	IC PA0053B	
IC1807	8-759-929-65	IC LM7912CT	
IC1808	8-759-701-79	IC NJM7812FA	
IC1809	8-759-327-52	IC PM0002B	
IC1931	8-759-711-28	IC NJM2058D	
IC1932	8-759-711-28	IC NJM2058D	
<COIL>			
L1501	1-412-533-21	INDUCTOR 47 $\mu$ H	
L1502	1-412-533-21	INDUCTOR 47 $\mu$ H	
L1503	1-412-524-11	INDUCTOR 8.2 $\mu$ H	
L1515	1-410-470-11	INDUCTOR 10 $\mu$ H	
L1516	1-410-482-31	INDUCTOR 100 $\mu$ H	
L1701	1-410-470-11	INDUCTOR 10 $\mu$ H	
L1801	1-406-975-21	COIL, CHOKE 47 $\mu$ H	
L1802	1-406-975-21	COIL, CHOKE 47 $\mu$ H	
<TRANSISTOR>			
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1551	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1552	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1802	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1803	8-729-900-36	TRANSISTOR DTC124ES	
Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1805	8-729-900-36	TRANSISTOR DTC124ES	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R1501	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1502	1-208-814-11	METAL CHIP 22K	0.50% 1/10W
R1504	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1505	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1506	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1507	1-208-814-11	METAL CHIP 22K	0.50% 1/10W
R1508	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1509	$\Delta$ 1-249-383-91	CARBON 1.5	5% 1/4W F
R1510	1-214-671-11	METAL 3.9	1% 1/4W
R1511	1-214-671-11	METAL 3.9	1% 1/4W
R1512	1-215-914-11	METAL OXIDE 330	5% 3W F
R1513	1-214-671-11	METAL 3.9	1% 1/4W
R1514	1-216-632-11	METAL CHIP 160	0.50% 1/10W
R1515	1-216-639-11	METAL CHIP 330	0.50% 1/10W
R1516	1-214-671-11	METAL 3.9	1% 1/4W
R1517	1-216-647-11	METAL CHIP 680	0.50% 1/10W
R1518	1-216-665-11	METAL CHIP 3.9K	0.50% 1/10W
R1519	$\Delta$ 1-249-385-91	CARBON 2.2	5% 1/4W F
R1520	$\Delta$ 1-249-385-91	CARBON 2.2	5% 1/4W F
R1521	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1522	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1523	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1551	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1552	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1553	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1554	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1559	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1562	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1603	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1604	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1605	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1606	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1607	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1608	1-214-729-00	METAL 1K	1% 1/4W
R1612	1-214-729-00	METAL 1K	1% 1/4W
R1613	1-214-673-00	METAL 4.7	1% 1/4W
R1615	1-214-673-00	METAL 4.7	1% 1/4W
R1616	1-214-673-00	METAL 4.7	1% 1/4W
R1618	1-214-673-00	METAL 4.7	1% 1/4W
R1619	1-214-673-00	METAL 4.7	1% 1/4W
R1620	1-214-673-00	METAL 4.7	1% 1/4W
R1621	1-214-673-00	METAL 4.7	1% 1/4W
R1622	1-214-673-00	METAL 4.7	1% 1/4W
R1623	1-214-729-00	METAL 1K	1% 1/4W
R1624	1-214-729-00	METAL 1K	1% 1/4W
R1625	1-214-673-00	METAL 4.7	1% 1/4W
R1626	1-214-673-00	METAL 4.7	1% 1/4W
R1627	1-214-673-00	METAL 4.7	1% 1/4W
R1628	1-214-673-00	METAL 4.7	1% 1/4W
R1629	1-214-673-00	METAL 4.7	1% 1/4W
R1630	1-214-673-00	METAL 4.7	1% 1/4W
R1631	1-214-729-00	METAL 1K	1% 1/4W
R1632	1-214-673-00	METAL 4.7	1% 1/4W
R1633	1-214-673-00	METAL 4.7	1% 1/4W
R1634	1-214-729-00	METAL 1K	1% 1/4W
R1635	1-214-673-00	METAL 4.7	1% 1/4W
R1636	1-214-673-00	METAL 4.7	1% 1/4W
R1637	1-214-673-00	METAL 4.7	1% 1/4W
R1638	1-214-673-00	METAL 4.7	1% 1/4W
R1639	1-214-673-00	METAL 4.7	1% 1/4W
R1640	1-214-673-00	METAL 4.7	1% 1/4W
R1641	1-214-673-00	METAL 4.7	1% 1/4W
R1642	1-214-673-00	METAL 4.7	1% 1/4W
R1643	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W
R1644	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W
R1645	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W
R1646	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1647	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W
R1648	$\Delta$ 1-202-967-91	FUSIBLE 0.1	10% 1/6W
R1717	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1721	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1737	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1740	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1748	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1749	1-216-295-91	CONDUCTOR, CHIP	
R1751	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1752	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1760	1-216-295-91	CONDUCTOR, CHIP	
R1788	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1801	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1802	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1803	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1804	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1805	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R1806	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1807	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R1808	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1809	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1810	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1811	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1812	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1813	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1814	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R1815	1-216-697-91	METAL CHIP 82K	0.50% 1/10W
R1816	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1817	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1818	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1819	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1820	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1821	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1823	1-208-811-11	METAL CHIP 16K	0.50% 1/10W
R1824	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1825	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1826	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1827	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1828	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1829	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1830	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1831	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1832	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1833	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1834	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1835	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1836	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1837	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1838	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1839	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1840	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1841	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1842	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1843	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1844	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1845	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1846	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1847	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1848	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1849	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1850	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1851	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1852	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1853	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1854	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1855	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1856	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1857	1-216-033-00	METAL GLAZE 220	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1858	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1859	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1860	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1861	1-216-473-11	METAL OXIDE 56	5% 3W F
R1862	1-216-473-11	METAL OXIDE 56	5% 3W F
R1863	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1864	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1865	1-216-473-11	METAL OXIDE 56	5% 3W F
R1866	1-216-473-11	METAL OXIDE 56	5% 3W F
R1868	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1869	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1870	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1871	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1872	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1873	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1874	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1875	1-208-824-11	METAL CHIP 56K	0.50% 1/10W
R1876	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1877	1-208-810-11	METAL CHIP 15K	0.50% 1/10W
R1878	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1879	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1880	1-218-768-11	METAL CHIP 470K	0.50% 1/10W
R1881	1-216-295-91	CONDUCTOR, CHIP	
R1883	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1884	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1885	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1886	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1887	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1888	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1889	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1890	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1891	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1892	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1893	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1894	$\Delta$ 1-249-389-91	CARBON 4.7	5% 1/4W F
R1895	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1896	$\Delta$ 1-249-389-91	CARBON 4.7	5% 1/4W F
R1897	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1898	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1899	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1900	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1901	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1902	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1903	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1904	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1905	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1907	1-208-810-11	METAL CHIP 15K	0.50% 1/10W
R1908	1-208-814-11	METAL CHIP 22K	0.50% 1/10W
R1909	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1910	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1911	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1912	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1913	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1914	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1915	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1916	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1917	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1918	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1919	1-208-822-11	METAL CHIP 47K	0.50% 1/10W
R1920	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1923	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1925	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1926	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1927	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1928	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1931	1-216-698-11	METAL CHIP 91K	0.50% 1/10W
R1935	1-218-766-11	METAL CHIP 390K	0.50% 1/10W
R1937	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1938	1-208-810-11	METAL CHIP 15K	0.50% 1/10W

**D** **HB** **HA** **U**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1940	1-208-812-11	METAL CHIP 18K	0.50% 1/10W
R1941	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1942	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1943	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R1944	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1947	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1948	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R1949	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R1950	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R1951	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1952	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1954	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1955	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1956	1-208-800-11	METAL CHIP 5.6K	0.50% 1/10W
R1957	1-208-824-11	METAL CHIP 56K	0.50% 1/10W
R1958	1-208-800-11	METAL CHIP 5.6K	0.50% 1/10W
R1959	1-208-824-11	METAL CHIP 56K	0.50% 1/10W
R1960	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1961	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R1962	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1963	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1964	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1965	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1966	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1967	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1970	1-208-774-11	METAL CHIP 470	0.50% 1/10W
R1971	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1981	1-216-473-11	METAL OXIDE 56	5% 3W F
R1982	1-216-473-11	METAL OXIDE 56	5% 3W F
R1983	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1984	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1985	1-216-025-91	METAL GLAZE 100	5% 1/10W
<THERMISTOR>			
TH1501	1-807-925-11	THERMISTOR	
TH1801	1-808-269-11	THERMISTOR	
<CRYSTAL>			
X1701	1-579-917-11	VIBRATOR, CRYSTAL	
*****			
* A-1372-111-A HB BOARD, COMPLETE (KP-46V25/53V25)			
*****			
<CAPACITOR>			
C1351	1-124-261-00	ELECT 10μF	20% 50V
<IC>			
IC1531	8-741-790-11	RAY CATCHER ELEMENT SBX1790-51	
<CONNECTOR>			
CN1389	* 1-564-518-11	PLUG, CONNECTOR 3P	
<RESISTOR>			
R1352	1-247-807-31	CARBON 100	5% 1/4W
*****			

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1372-112-A HA BOARD, COMPLETE (KP-46V25/53V25)			
*****			
* A-1372-099-A HA BOARD, COMPLETE (KP-61V25)			
*****			
<CAPACITOR>			
C1301	1-126-964-11	ELECT 10μF	20% 50V
C1304	1-126-964-11	ELECT 10μF	20% 50V
(KP-61V25)			
<CONNECTOR>			
CN1346	1-564-524-11	PLUG, CONNECTOR 9P	
CN1347	* 1-564-521-11	PLUG, CONNECTOR 6P	
CN1349	* 1-564-518-11	PLUG, CONNECTOR 3P (KP-46V25/53V25)	
<DIODE>			
D1304	8-719-053-43	DIODE SLR-325VCT31	
D1305	8-719-053-43	DIODE SLR-325VCT31	
<IC>			
IC1301	8-741-780-51	IC SBX1780-51 (KP-61V25)	
<JACK>			
J1301	1-750-517-11	JACK BLOCK, PIN 3P	
<RESISTOR>			
R1302	1-249-416-11	CARBON 820	5% 1/4W
R1303	1-249-417-11	CARBON 1K	5% 1/4W
R1304	1-249-425-11	CARBON 4.7K	5% 1/4W
R1305	1-249-411-11	CARBON 330	5% 1/4W
R1306	1-249-411-11	CARBON 330	5% 1/4W
R1307	1-249-420-11	CARBON 1.8K	5% 1/4W
R1308	1-247-895-91	CARBON 470K	5% 1/4W
R1309	1-247-895-91	CARBON 470K	5% 1/4W
R1310	1-249-429-11	CARBON 10K	5% 1/4W
R1311	1-247-815-91	CARBON 220	5% 1/4W
R1312	1-247-804-11	CARBON 75	5% 1/4W
R1313	1-535-303-00	LEAD, JUMPER (5.0mm) (KP-61V25)	
R1314	1-247-807-31	CARBON 100	5% 1/4W
(KP-61V25)			
<SWITCH>			
S1301	1-571-731-11	SWITCH, TACTIL	
S1302	1-571-731-11	SWITCH, TACTIL	
S1303	1-571-731-11	SWITCH, TACTIL	
S1304	1-571-731-11	SWITCH, TACTIL	
S1305	1-571-731-11	SWITCH, TACTIL	
S1306	1-571-731-11	SWITCH, TACTIL	
S1307	1-571-731-11	SWITCH, TACTIL	
*****			
* A-1373-514-A U BOARD, COMPLETE			
*****			
<CAPACITOR>			
C1101	1-128-551-11	ELECT 22μF	20% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK
C1101	1-128-551-11	ELECT 22μF	20% 50V
C1102	1-124-903-11	ELECT 1μF	20% 50V
C1103	1-124-903-11	ELECT 1μF	20% 50V
C1104	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C1105	1-128-551-11	ELECT 22μF	20% 50V
C1106	1-128-551-11	ELECT 22μF	20% 50V
C1107	1-124-903-11	ELECT 1μF	20% 50V
C1108	1-124-903-11	ELECT 1μF	20% 50V
C1109	1-128-551-11	ELECT 22μF	20% 50V
C1110	1-124-903-11	ELECT 1μF	20% 50V
C1111	1-124-903-11	ELECT 1μF	20% 50V
C1121	1-126-935-11	ELECT 470μF	20% 16V
C1122	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1123	1-124-903-11	ELECT 1μF	20% 50V
C1124	1-128-551-11	ELECT 22μF	20% 50V
C1125	1-124-903-11	ELECT 1μF	20% 50V
C1126	1-104-665-11	ELECT 100μF	20% 25V
C1127	1-104-663-11	ELECT 33μF	20% 25V
C1128	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1129	1-128-551-11	ELECT 22μF	20% 50V
C1130	1-109-889-11	ELECT 1μF	20% 50V
C1131	1-109-889-11	ELECT 1μF	20% 50V
C1132	1-124-902-00	ELECT 0.47μF	20% 50V
C1136	1-128-551-11	ELECT 22μF	20% 50V
C1137	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1138	1-124-902-00	ELECT 0.47μF	20% 50V
C1139	1-126-964-11	ELECT 10μF	20% 50V
C1145	1-128-499-11	ELECT 220μF	20% 16V
C1146	1-124-902-00	ELECT 0.47μF	20% 50V
C1147	1-124-902-00	ELECT 0.47μF	20% 50V
C1148	1-124-902-00	ELECT 0.47μF	20% 50V
C1149	1-124-902-00	ELECT 0.47μF	20% 50V
C1150	1-128-499-11	ELECT 220μF	20% 16V
C1151	1-128-499-11	ELECT 220μF	20% 16V
C1152	1-128-499-11	ELECT 220μF	20% 16V
C1153	1-104-665-11	ELECT 100μF	20% 25V
<CHIP CONDUCTOR>			
CJ1101	1-216-295-91	CONDUCTOR, CHIP	
<CONNECTOR>			
CN1147	*1-564-509-11	PLUG, CONNECTOR 6P	
CN1150	*1-573-300-21	CONNECTOR, BOARD TO BOARD 18P	
CN1155	*1-565-928-11	CONNECTOR (TUB) 30P	
CN1156	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CN1194	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P	
<DIODE>			
D1101	8-719-110-17	DIODE RD10ESB2	
D1102	8-719-110-17	DIODE RD10ESB2	
D1103	8-719-110-17	DIODE RD10ESB2	
D1104	8-719-110-17	DIODE RD10ESB2	
D1105	8-719-110-17	DIODE RD10ESB2	
D1106	8-719-110-17	DIODE RD10ESB2	
D1107	8-719-110-17	DIODE RD10ESB2	
D1108	8-719-110-17	DIODE RD10ESB2	
D1109	8-719-110-17	DIODE RD10ESB2	
D1111	8-719-110-17	DIODE RD10ESB2	
D1112	8-719-110-17	DIODE RD10ESB2	
D1113	8-719-110-17	DIODE RD10ESB2	
D1114	8-719-110-17	DIODE RD10ESB2	
D1115	8-719-110-17	DIODE RD10ESB2	
D1120	8-719-110-17	DIODE RD10ESB2	
D1121	8-719-110-36	DIODE RD13ESB2	
D1122	8-719-110-36	DIODE RD13ESB2	
D1123	8-719-110-36	DIODE RD13ESB2	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D1124	8-719-110-36	DIODE RD13ESB2	
D1125	8-719-109-66	DIODE RD3.3ESB2	
D1126	8-719-110-17	DIODE RD10ESB2	
D1127	8-719-110-17	DIODE RD10ESB2	
D1128	8-719-110-56	DIODE RD22ESB1	
D1129	8-719-110-56	DIODE RD22ESB1	
D1130	8-719-110-56	DIODE RD22ESB1	
D1131	8-719-110-56	DIODE RD22ESB1	
D1135	8-719-911-19	DIODE 1SS119-25	
<IC>			
IC1101	8-752-068-46	IC CXA1855S	
IC1102	8-759-701-59	IC NJM78M09FA	
<JACK>			
J1101	1-750-515-11	TERMINAL BLOCK, S 3P	
J1102	1-750-517-11	JACK BLOCK, PIN 3P	
J1103	1-750-545-11	JACK BLOCK, PIN 3P	
J1104	1-750-517-11	JACK BLOCK, PIN 3P	
J1105	1-750-516-11	JACK BLOCK, PIN 2P	
J1106	1-563-760-11	JACK, MINIATURER (DIA. 3.5)	
J1107	1-563-760-11	JACK, MINIATURER (DIA. 3.5)	
<COIL>			
L1101	1-410-476-11	INDUCTOR 33μH	
L1104	1-410-473-11	INDUCTOR 18μH	
L1105	1-410-494-11	INDUCTOR 1mH	
<TRANSISTOR>			
Q1102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1103	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1104	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1105	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1106	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1107	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1108	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1109	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1110	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1111	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1112	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1113	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1114	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1115	8-729-422-27	TRANSISTOR 2SD601A-Q	
<RESISTOR>			
R1101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1102	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1103	1-247-804-11	CARBON 75	5% 1/4W
R1104	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1105	1-247-804-11	CARBON 75	5% 1/4W
R1106	1-247-804-11	CARBON 75	5% 1/4W
R1107	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1108	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1109	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1110	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1111	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1112	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1113	1-247-804-11	CARBON 75	5% 1/4W
R1114	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1115	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1116	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1117	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1118	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1119	1-216-025-91	METAL GLAZE 100	5% 1/10W



**ZR**

**ZG**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1127	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1129	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1130	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1132	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1133	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1134	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1135	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1137	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1138	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1140	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1141	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1142	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1145	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1146	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1149	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1150	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1151	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1152	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1153	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1154	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1155	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1156	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1157	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1158	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1159	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1160	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1161	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1162	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1165	1-249-403-11	CARBON 68	5% 1/4W
R1166	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1167	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1168	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1169	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1170	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1171	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1172	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1173	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1174	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1175	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1176	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1178	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1179	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1180	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1181	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1182	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1183	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1184	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1185	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1186	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1187	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1188	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1193	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1194	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1195	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1196	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1197	1-216-041-00	METAL GLAZE 470	5% 1/10W

<TAB>

TB1101 1-537-712-11 TERMINAL, PUSH

\*\*\*\*\*

\* A-1390-487-A ZR BOARD, COMPLETE  
 \*\*\*\*\*

4-382-854-11 SCREW (M3X10), P, SW (+)

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>			
C1401	1-162-115-00	CERAMIC 330PF	10% 2KV
C1402	1-162-115-00	CERAMIC 330PF	10% 2KV
C1403	1-102-978-00	CERAMIC 220PF	5% 50V
C1404	1-107-638-11	ELECT 33μF	20% 160V
C1405	1-104-665-11	ELECT 100μF	20% 25V
C1406	1-107-370-11	FILM 0.1μF	10% 200V
C1407	1-104-665-11	ELECT 100μF	20% 25V
C1408	1-107-362-11	FILM 0.0047μF	10% 200V
C1409	1-107-667-11	ELECT 2.2μF	20% 160V
C1410	1-107-362-11	FILM 0.0047μF	10% 200V
C1411	1-137-364-11	FILM 0.001μF	5% 50V
C1412	1-137-364-11	FILM 0.001μF	5% 50V
C1413	1-161-830-00	CERAMIC 0.0047μF	500V
C1414	1-126-940-11	ELECT 330μF	20% 16V
C1415	1-164-046-11	CERAMIC 10PF	0.5PF 50V
C1416	1-102-973-00	CERAMIC 100PF	5% 50V
<CONNECTOR>			
CN1411	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1412	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1413	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1414	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN1415	* 1-564-510-11	PLUG, CONNECTOR 7P	
<DIODE>			
D1401	8-719-110-88	DIODE RD39ESB2	
D1402	8-719-110-88	DIODE RD39ESB2	
<TRANSISTOR>			
Q1401	8-729-017-06	TRANSISTOR 2SC4793	
Q1402	8-729-017-05	TRANSISTOR 2SA1837	
Q1403	8-729-140-96	TRANSISTOR 2SD774-34	
<RESISTOR>			
R1401	1-249-414-11	CARBON 560	5% 1/4W
R1402	1-249-414-11	CARBON 560	5% 1/4W
R1403	1-202-822-00	SOLID 2.2K	20% 1/2W
R1404	1-202-822-00	SOLID 2.2K	20% 1/2W
R1405	1-249-417-11	CARBON 1K	5% 1/4W
R1406	1-216-479-11	METAL OXIDE 560	5% 3W F
R1407	1-249-400-11	CARBON 39	5% 1/4W F
R1408	1-249-384-11	CARBON 1.8	5% 1/4W F
R1409	1-249-384-11	CARBON 1.8	5% 1/4W F
R1410	1-247-734-11	CARBON 39	5% 1/2W F
R1411	1-249-417-11	CARBON 1K	5% 1/4W F
R1412	1-249-414-11	CARBON 560	5% 1/4W
R1413	1-249-432-11	CARBON 18K	5% 1/4W
R1414	1-249-432-11	CARBON 18K	5% 1/4W
R1415	1-249-414-11	CARBON 560	5% 1/4W F
R1416	1-216-451-11	METAL OXIDE 120	5% 2W F
R1417	1-216-475-11	METAL OXIDE 120	5% 3W F
R1418	1-249-377-11	CARBON 0.47	5% 1/4W F
R1419	1-247-815-91	CARBON 220	5% 1/4W
R1420	1-216-475-11	METAL OXIDE 120	5% 3W F
R1421	1-249-417-11	CARBON 1K	5% 1/4W

\*\*\*\*\*

\* A-1390-489-A ZG BOARD, COMPLETE  
 \*\*\*\*\*

**ZG ZB**

REF. NO. PART NO. DESCRIPTION REMARK

<CAPACITOR>

C1431	1-162-115-00	CERAMIC	330PF	10%	2KV
C1432	1-162-115-00	CERAMIC	330PF	10%	2KV
C1433	1-102-973-00	CERAMIC	100PF	5%	50V

<CONNECTOR>

CN1441	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
CN1442	* 1-564-507-11	PLUG, CONNECTOR 4P
CN1443	* 1-564-506-11	PLUG, CONNECTOR 3P
CN1445	* 1-564-510-11	PLUG, CONNECTOR 7P

<RESISTOR>

R1431	1-249-414-11	CARBON	560	5%	1/4W
R1432	1-249-414-11	CARBON	560	5%	1/4W
R1433	1-202-822-00	SOLID	2.2K	20%	1/2W
R1434	1-202-822-00	SOLID	2.2K	20%	1/2W
R1435	1-216-475-11	METAL OXIDE	120	5%	3W F
R1436	1-216-475-11	METAL OXIDE	120	5%	3W F
R1437	1-249-417-11	CARBON	1K	5%	1/4W

\*\*\*\*\*

\* A-1390-491-A ZB BOARD, COMPLETE  
\*\*\*\*\*

<CAPACITOR>

C1461	1-162-115-00	CERAMIC	330PF	10%	2KV
C1462	1-162-115-00	CERAMIC	330PF	10%	2KV

<CONNECTOR>

CN1471	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
CN1472	* 1-564-507-11	PLUG, CONNECTOR 4P
CN1473	* 1-564-506-11	PLUG, CONNECTOR 3P

<RESISTOR>

R1461	1-249-414-11	CARBON	560	5%	1/4W
R1462	1-249-414-11	CARBON	560	5%	1/4W
R1463	1-202-822-00	SOLID	2.2K	20%	1/2W
R1464	1-202-822-00	SOLID	2.2K	20%	1/2W
R1465	1-216-475-11	METAL OXIDE	120	5%	3W F
R1466	1-216-475-11	METAL OXIDE	120	5%	3W F

\*\*\*\*\*

<MISCELLANEOUS>  
\*\*\*\*\*

Δ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)
1-417-178-11	SELECTOR, ANTENNA (AS-2)
Δ 1-452-790-11	NECK ASSY
Δ 1-452-790-21	NECK ASSY
1-504-785-11	SPEAKER (10CM)

1-556-945-21	CABLE, P-P
* 1-557-056-41	CABLE, P-P
Δ 1-769-837-11	CORD, POWER (WITH NOISE FILTER) (7.0A/125V)
Δ 1-900-211-34	LEAD ASSY, HV
Δ 8-451-463-11	DEFLECTION YOKE (Y829PA2N) (R), (G)

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO. PART NO. DESCRIPTION REMARK

Δ 8-451-463-21	DEFLECTION YOKE (Y829PA2N2) (B)
Δ 8-598-955-00	BLOCK ASSY, HIGH-VOLTAGE
8-741-797-01	FILTER, DIGITAL COM SBX1797-01
V901 Δ 8-736-080-05	PICTURE TUBE 07MAB5(R) (KP-46V25)
V901 Δ 8-736-082-05	PICTURE TUBE 07MAB6(R) (KP-53V25/61V25)
V902 Δ 8-736-078-05	PICTURE TUBE 07MAB5(G)
V903 Δ 8-736-079-05	PICTURE TUBE 07MAB5(B) (KP-46V25)
V903 Δ 8-736-081-05	PICTURE TUBE 07MAB6(B) (KP-53V25/61V25)

\*\*\*\*\*

<ACCESSORIES AND PACKING MATERIALS>  
\*\*\*\*\*

X-4032-707-1	DOOR (L) ASSY, RACK	(KP-46V25/53V25)
X-4032-708-1	DOOR (R) ASSY, RACK	(KP-46V25/53V25)
X-4032-709-1	DOOR ASSY, RACK	(KP-61V25)
3-800-353-21	MANUAL, INSTRUCTION	
3-800-353-31	MANUAL, INSTRUCTION	(KP-46V25/53V25Canadian)

4-048-634-01	SHAFT	
* 4-037-674-01	BOARD, TOP	(KP-46V25)
* 4-047-603-01	CUSHION (UPPER) (ASSY)	(KP-46V25)
* 4-047-604-01	CUSHION (LOWER) (ASSY)	(KP-46V25)
* 4-047-606-01	TRAY	(KP-46V25)

* 4-047-607-01	BOARD, BOTTOM	(KP-46V25)
* 4-047-608-01	INDIVIDUAL CARTON	(KP-46V25)
* 4-049-276-01	SHEET, PROTECTION	(KP-46V25)
* 4-049-923-01	CUSHION (UPPER) (ASSY)	(KP-46V25)
4-048-790-01	GLASS (53), DOOR	(KP-46V25/53V25)

* 4-041-426-01	BAG, PROTECTION	(KP-46V25/53V25)
* 4-047-774-01	PLATE, TOP	(KP-53V25)
* 4-048-087-01	CUSHION (UPPER) (ASSY)	(KP-53V25)
* 4-048-088-01	CUSHION (LOWER) (ASSY)	(KP-53V25)
* 4-049-023-01	BOARD, BOTTOM	(KP-53V25)

* 4-049-024-01	TRAY	(KP-53V25)
* 4-049-031-01	INDIVIDUAL CARTON	(KP-53V25)
* 4-049-508-01	CUSHION (FRONT) (ASSY)	(KP-53V25)
* 4-042-463-01	SHEET, PROTECTION	(KP-53V25/61V25)
* 4-049-193-01	BAG, POLYETHYLENE	(KP-53V25/61V25)

4-048-791-01	GLASS (61), DOOR	(KP-61V25)
* 4-047-553-01	INDIVIDUAL CARTON	(KP-61V25)
* 4-047-554-01	TRAY	(KP-61V25)
* 4-047-555-01	PLATE, TOP	(KP-61V25)
* 4-047-556-01	BOARD, BOTTOM	(KP-61V25)

* 4-047-557-01	CUSHION (UPPER) (ASSY)	(KP-61V25)
* 4-047-558-01	CUSHION (LOWER) (ASSY)	(KP-61V25)
* 4-047-559-01	CUSHION (LEFT UPPER)	(KP-61V25)
* 4-047-560-01	CUSHION (RIGHT UPPER)	(KP-61V25)
* 4-047-561-01	CUSHION (LEFT LOWER)	(KP-61V25)

* 4-047-562-01	CUSHION (RIGHT LOWER)	(KP-61V25)
* 4-049-922-01	BLOCK, FOAM	(KP-61V25)
* 4-049-952-01	BAG, PROTECTION	(KP-61V25)

\*\*\*\*\*

<ACCESSORIES AND PACKING MATERIALS>  
\*\*\*\*\*

REMOTE COMMANDER  
\*\*\*\*\*

1-473-094-11	REMOTE COMMANDER (RM-Y131)
	POCKET, COVER (FOR RM-Y131)